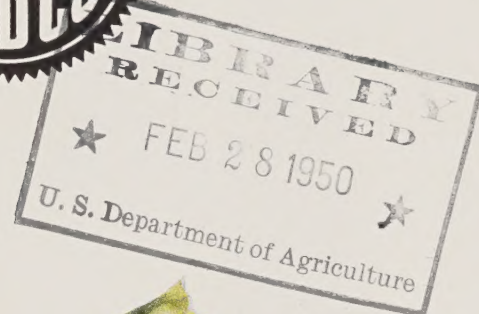



Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

62,21

DUTHIE'S PLANTING GUIDE FOR 1950



ALL-AMERICA  SELECTIONS

1950 GOLD MEDAL WINNER

FIRE CHIEF PETUNIA

"Our Seeds Grow Friends"

DUTHIE SEED COMPANY

510 MAIN AVENUE
1101 MAIN STREET

• SPOKANE 8, WASHINGTON
• LEWISTON, IDAHO



See Our Complete List of Modern Gladiolus on Page 32



*See Our Complete List of All Types of
Tuberous Rooted Begonias on Page 33*

*Don't Miss Our 3 Dahlia
Collections
Decorative - Miniature - Pompon
FEATURED ON PAGE 34*



DECORATIVE DAHLIA

NOVELTIES for your 1950 garden

GOLD MEDAL WINNER

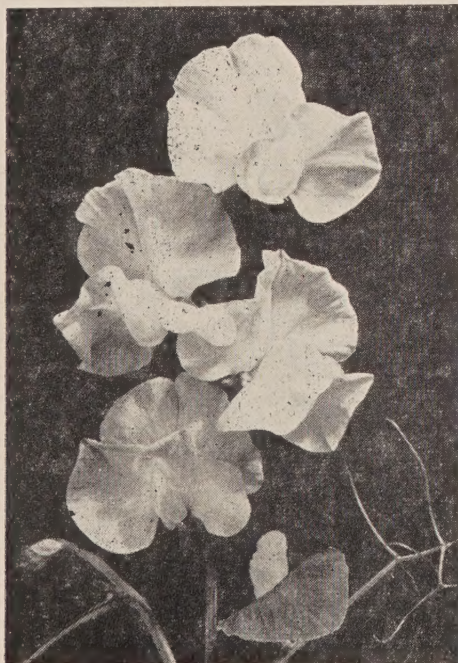
Petunia Fire Chief (a) Grp. 4



All America Gold Medal Winner. The first annual to receive this high award in 11 years. Petunia Fire Chief is the reddest petunia you ever saw. Compact plants of erect habit covered throughout the season with brilliant signal red flowers. Exceptional uniformity of color and habit make it one of the finest bedding petunias ever grown. **Pkt. 25c.**

The New CUTHBERTSON SWEET PEA

The greatest development in Sweet Peas for many years. Heat and drought no longer spell the end to the Sweet Peas in the garden. Where other types do not perform well, Cuthbertson's are the answer. They are very rugged, producing tremendous blooms on long stems. Ten days earlier than Spencers.



Cuthbertson's Mixed Blend. An excellent range of 25 to 30 colors, well balanced. **Pkt. 20c.**

THE NEWEST LARKSPUR



Supreme Larkspur (a) Grp. 3

A superb new strain of base branching larkspur. Huge spikes of fully double wide petaled flowers in outstanding new colors. The plants are tall, of ideal upright habit and uniform height. See page 8 for complete listing of varieties

TOP CROP — A New Bean



Top Crop. Bush, green pod. All America Selections Gold Medal Winner for 1950. Developed by the U. S. Dept. of Agriculture. Plant is vigorous and very prolific, carries the pods low. Resistant to common bean mosaic. The 6-inch long pods are medium green, round, $\frac{3}{8}$ inch in diameter, very straight, stringless. Matures in 50 days.

It's Easy to Raise Our Flower Seeds

We have grouped our seeds according to the culture they require. Find the group number in the alphabetical listing, for example, Ageratum, Grp. 2, and your cultural instructions in the column below.

Group 1 Seeds in this group are difficult to transplant. Sow the seeds where the plants are to flower, after the danger of frost has passed. Thin out to the desired distance when the seedlings are well started.

Group 2 Seeds in this group are easily raised outside after the danger of frost has passed. Either sow them in their permanent positions or in a seed bed and transplant to the place where they are to remain.

Group 3 Seeds in this group can be sown outside very early in the season, being very hardy. When the seedlings are big enough they should be transplanted to their permanent positions.

Group 4 Sow seeds in flats in early spring for best results. When seedlings are large enough to handle transplant to other flats. Harden off gradually and plant into beds when the weather is settled.

Group 5 In this group are most of the perennial seeds. They can either be sown indoors in flats or outside. If sown outside it is good practice to sow them in mid-spring so they will reach a fair size before the hot weather starts. After the seedlings are big enough to handle, transplant to allow room for growth. Plant in their permanent places in fall or, if the plants are very small, winter over in a cold frame and plant out the following spring.

For best results with biennials such as Sweet Williams, Canterbury Bells, Wallflowers and Beauty of Nice Stocks, sow them in summer. When the seedlings are large enough transplant or thin them so they will make sturdy plants by fall. At that time plant them where they are to flower. Handled in this way, these flowers will give a really good display.

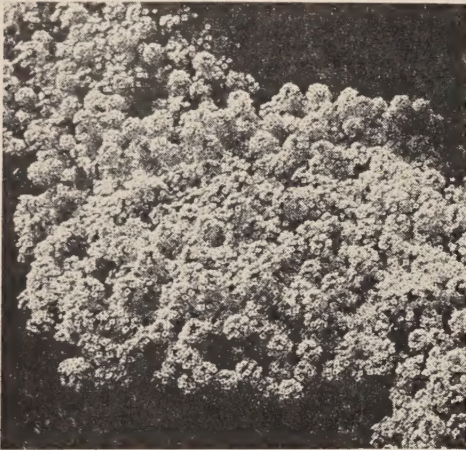
Try interplanting some of these showy biennial flowers with your late-flowering Tulips for very pleasing effects.

AGERATUM (a) Grp. 2

Fluffy blue flowers all summer on dwarf compact plants. Easily grown in any soil. Excellent for edgings or rock gardens.

Midget Blue. Silver Medal All America Selection 1940. Fine dwarf Ageratum 2 to 3 inches high, smothered with small, true Ageratum blue flowers. **Pkt. 15c.**

Blue Ball. Compact round plants, 6 inches tall, hidden by a mass of pure blue flowers. **Pkt. 10c.**



ALYSSUM, Madwort

Blooms the entire season; popular for beds and edging in summer, or for growing in pots and boxes for winter bloom. **Carpet of Snow (a) Grp. 2.** White flowers on 3-inch plants. **Pkt. 10c.**

Saxatile compactum (p) Grp. 5. Basket of Gold. Compact plants covered with a wealth of golden blossoms in early spring. 12 inches. **Pkt. 10c.**

Maritimum (Sweet Alyssum) (a) Grp. 2. Fragrant white flowers all season. **Pkt. 10c.**

Violet Queen (a) Grp. 2. Neat low plants with an abundance of sweetly scented flowers of a very rich deep shade of violet. Neat in habit and free flowering. **Pkt. 15c.**



ARCTOTIS HYBRIDS

ANTIRRHINUM

See Snapdragon

ARCTOTIS HYBRIDS (a) Grp. 4

Autumn Shades. A gay and cheerful member of the daisy family. Dozens of blossoms in many shades of red, orange, and yellow, from early spring onward. Attractive gray-green wavy edged leaves. **Mixed, Pkt. 15c.**

ASTER (a) Grp. 4

We can imagine no other flower which combines so much beauty and grace with usefulness; or one capable of more brilliant effects. From July until September the Aster reigns supreme in the garden. For these reasons we give a great deal of attention to these flowers and are in a position to offer our patrons remarkably fine strains, producing perfect flowers of great beauty. To do well Asters require a rich soil kept open by continuous cultivation.

Heart of France. Deep ruby-red, fully double, well rounded flowers on long stems. Midseason until frost. **Pkt. 25c.**

IMPROVED CREGO WILT RESISTANT. The large shaggy flowers with long curled petals are not unlike the ostrich feather for which they are commonly named. The plants are strong, heavily branched and grow about 2½ feet in height.

Blue Flame. Bright navy blue. **Pkt. 15c.**

Crimson. Glowing deep rose-crimson. **Pkt. 15c.**

Cattleya. Fascinating shade of orchid. **Pkt. 15c.**

Enchantress. Bright salmon-rose. **Pkt. 15c.**

Pink. Beautiful shell pink. **Pkt. 15c.**

Rose. Lovely bright carmine rose. **Pkt. 15c.**



ASTER, AMERICAN BRANCHING

White. Purest white, large and fluffy. **Pkt. 15c.**

Crego's Finest Mixed. Pkt. 10c.

SUPER GIANTS. Combining the Crego type of flower with the Beauty Aster's long unbranching stems, this full flowered race of Asters stands at the head of the list.

Super Giant El Monte. Deep glowing crimson. **Pkt. 15c.**

Super Giant Los Angeles. Fully double shell pink. **Pkt. 15c.**

PRINCESS ASTERS, WILT RESISTANT. The blooms of this type have a full crested center surrounded by several rows of strong guard petals.

Princess Asters Mixed. Pkt. 15c.

BABY'S BREATH, Gypsophila

Airy sprays of white flowers, lovely for bouquets.

Brilliant Carmine (a) Grp. 3. Dainty bell-shaped blooms. Make sowings two weeks apart for continuous flowers. **Pkt. 15c.**

Covent Garden Market (a) Grp. 3. Large, single white flowers, 6-8 petals each. The type most often chosen by breeders. **Pkt. 10c.**

Paniculata Single White (p) Grp. 5. Hardy perennial with sprays of tiny rose shaped blossoms. If cut before the flowers are fully opened sprays can be used in winter bouquets. 3 ft. **Pkt. 10c.**

Paniculata Double White (p) Grp. 5. Double form of the above. Excellent for fresh or dry bouquets. **Pkt. 25c.**

BACHELOR'S BUTTON or CORNFLOWER, Centaurea

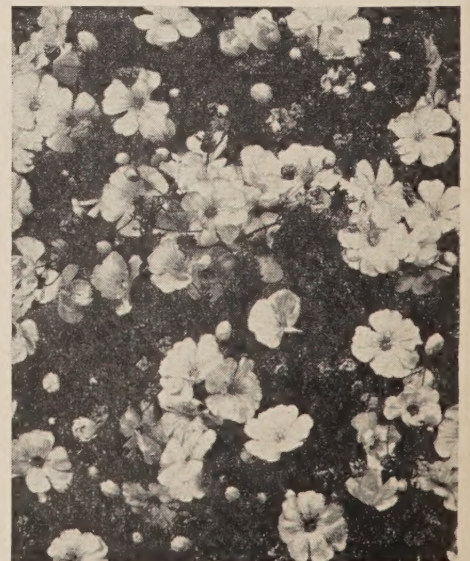
Cornflower, Jubilee Gem (a) Grp. 3. Compact plants a foot high, literally covered with flowers. **Pkt. 15c.**

Cornflower, Cyanus Double (a) Grp. 3. This superb class of Cornflower has handsome large double blooms, 2 to 3 feet tall.

Blue Boy. Pkt. 10c. Pinkie. Pkt. 10c.

Snow Man (white). Pkt. 10c.

Mixed. Pkt. 10c.



GYPSOPHILA

BALSAM

Lady Slipper (a) Grp. 2

An old and popular garden flower of easy culture. Gorgeous masses of brilliant double flowers are produced in the greatest profusion. An excellent flower for your shady corner. Height, 2 feet.

Camellia Flowered. Most improved type. Finest mixed. Pkt. 10c.

BEAN (a) Grp. 2

Scarlet Runner. A rapid climber, flowering profusely; grows 10 to 15 feet high. Edible as well as ornamental. Pkt. 10c.

BELLIS

English Daisy (p) Grp. 5

This cheerful little perennial thrives in cool and shady locations. Sow in fall or spring. Mixed. Pkt. 25c.

BLACK EYED SUSAN

Thunbergia (a)

Beautiful rapid growing annual climber, preferring a warm sunny situation. Used extensively for hanging baskets, vases, low fences, etc. Very pretty flowers in buff, white, orange and other shades, with dark eyes.

Alata. Finest mixed. Pkt. 10c.

BLUE CUP FLOWER

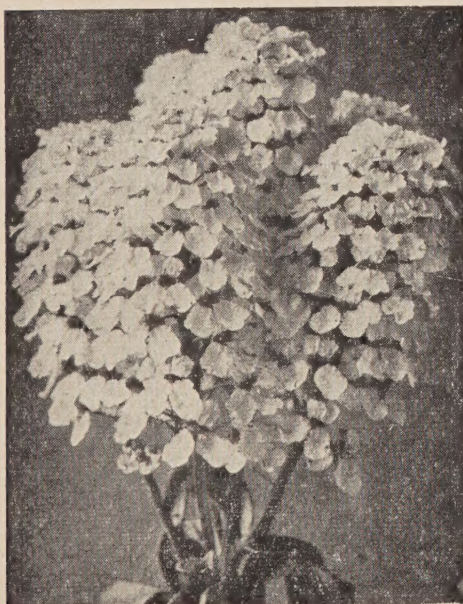
Nierembergia

Purple Robe (a) Grp. 4. Bronze Medal All America Selections, 1942. Very dwarf cushion-like plants with flowers of violet blue. In bloom for a long period. Pkt. 25c.

BUTTERFLY FLOWER

Schizanthus (a) Grp. 2

One of our finest hardy annuals. Showy flowers of various colors, closely resembling some species of Orchids. Does well in shade.



CANDYTUFT

Waller Franklin Strain. Giant Flowering Hybrids, an extra select, compact, large flowered strain, containing a perfect blend of many colors. Pkt. 25c.

CALIFORNIA POPPY

See Poppy

CALENDULA

Port Marigold (a) Grp. 2

Blooms freely in early summer and continues into fall, requiring little care to grow to perfection. 18 to 24 inches high. Plant in fall.

Campfire Improved. A very deep strong orange with distinct scarlet sheen on upper side of each petal. Blooms are flat across top, 4 inches in diameter. Pkt. 15c.

New Sunshine Calendula Chrysantha. A clear Buttercup yellow with loosely arranged petals, incurved at the center, and reflexed at the edges. The foot-long stems are strong and wiry. Pkt. 15c.

Sunset Shades. Interesting bi-color Calendula in apricot tones overlaid with orange, lemon or primrose. Lovely, compact plant for bedding purposes, producing plenty of bloom. Double Mixed, Pkt. 15c.



CALENDULA

PACIFIC BEAUTIES. Large, full double bloom with long, toothed and soft petals, arranged loosely to form a ball shaped flower. Excellent home garden type, about 16" tall, with great size flowers of lemon, apricot and persimmon shades, often attractively tipped. Heat resistant. Pkt. 25c.

CALLIOPSIS (a) Grp. 3

Very showy subject for garden decoration and cutting.

Tall Mixed. All double. Contains a wide range of color combinations, mostly bi-colored. Pkt. 15c.

CANARY BIRD VINE (ac) Grp. 5

This graceful climber makes a delicate lacy effect with its cut leaves and fringed yellow flowers perched like canary birds on the vines. Will grow to a height of 10 to 15 feet. Pkt. 10c.



BELLIS, ENGLISH DAISY

CANDYTUFT (a) Grp. 1

Valuable for masses and edging. Highly desirable for bouquets.

Giant White Hyacinth Flowered. Very fine for cutting. Pkt. 10c.

Umbellata. Of compact and branching habit. Mixed colors. Pkt. 10c.

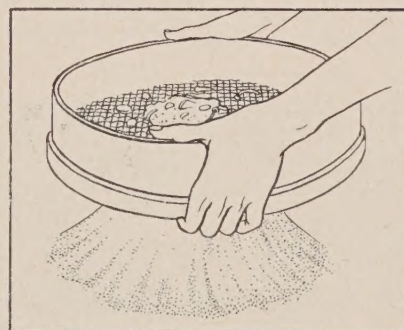
CANTERBURY BELLS

Campanula Medium (b) Grp. 5

Calcyanthema, Cup and Saucers. The most beautiful type with large bell- or cup-shaped flowers surrounded at the base by a large calyx of a similar color, the whole resembling a cup and saucer. In separate colors, pink, light blue, dark blue, white and purple. Pkt. 15c. Finest Mixed. Pkt. 15c.

Single. A form with charming pyramids of fluted bells. 2 to 3 feet. Mixed, Pkt. 10c.

Preparing the Soil



The ideal soil for seed is light and porous but will hold moisture enough to permit good germination.

A good soil mixture for seeding either indoors or outside is: $\frac{1}{2}$ light loam, $\frac{1}{4}$ sand and $\frac{1}{4}$ granulated peat moss. The addition of leaf mold improves the mixture. The top 2 inches of a seed bed should be screened through a $\frac{1}{4}$ -inch mesh screen. The ingredients should be thoroughly mixed and, just before sowing, firmed down with a flat block of wood or similar implement.

CARDINAL CLIMBER (ac)

Graceful climber with cardinal-scarlet blooms 1 to 1½ inches in diameter. Rich, glossy, dark green foliage. Grows 15 feet tall and is in bloom all summer. *Ipomoea Cardinalis*. Pkt. 15c.

CARNATION (p) Grp. 5

Few flowers surpass in beauty of form or delicious fragrance the richly-hued carnation.

Chabaud Giant. 18 inches. This variety blooms six months after seeding and continues throughout the summer. The plants, robust and erect, supply handsome, double, clove-scented flowers of extra large size. Pkt. 25c.

English Giants Mixed. A most complete collection of colors including many rare shades. Well grown plants, disbudded to one or two blooms per stem, will produce flowers closely approaching those grown by florists. Pkt. 35c.

CASTOR BEAN

Ricinus (a) Grp. 2

Magnificent, tall, large leaved plants of tropical appearance, succeeding in a warm, sunny location. Beautiful for large foliage groups and background. Height, 10 to 12 feet.

Mixed Varieties. Pkt. 10c.

CLARKIA (a) Grp. 3

A truly charming annual of the most graceful habit, flowering in July. Rose flowers in long racemes.

Elegans. Double choice mixed. Height 2 feet. Pkt. 10c.

COCKSCOMB

Celosia (a) Grp. 4

A showy annual producing massive heads of bloom in rich shades of crimson and yellow.

Cristata. Choice mixed. Height 9 to 18 inches. Pkt. 10c.

Plumosa (Improved Feather Type). Choice mixed. Height 8 feet. Pkt. 10c.



CLARKIA

COLUMBINE *Aquilegia* (p) Grp. 5

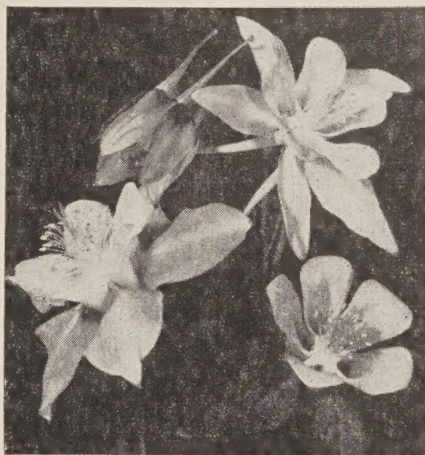
These are among the most beautiful of spring and early summer flowers; very effective when grown in the herbaceous border and groups among shrubbery. Long-spurred flowers on graceful stems 2 feet or more above the fern-like foliage.

Mrs. Scott Elliott's Strain. One of the finest tall strains ever developed, long-spurred, large flowers, in a splendid mixture of colors.

Blue. Pkt. 25c.

Mixture. Pkt. 25c.

Long Spurred Blue Shades. Larger flowered than the other colors, these are of the most beautiful shades of blue ranging from azure blue of the Cambridge Blue Delphiniums through Belladonna to the Forget-me-not, all with a rich cream center. A perennial blooming the first year from seed in most climates. Pkt. 25c.



COLUMBINE, AQUILEGIA

CORAL BELLS

Heuchera (p) Grp. 5

A low growing hardy perennial plant with heart shaped leaves, which form a low clump 6 to 8 inches high and bearing during summer, loose graceful sprays of red flowers in great profusion.

Spitfire. Large, rich scarlet. Pkt. 35c.

COREOPSIS (p) Grp. 5

One of our most popular perennials; the attractive flowers are borne in great profusion and are excellent for cutting. Height, 3 feet.

Grandiflora Double Sunburst. Much of the beauty of early summer gardens is due to the brilliant golden yellow of Coreopsis plantings. The double flowers are large, 1½ to 2 inches across, deep golden yellow, and are excellent for cutting as well as for garden decoration. Fine keepers; plants are easy to grow. Pkt. 15c.

COSMOS (a) Grp. 3

No garden is complete without Cosmos. These old favorites supply a gorgeous, colorful effect during late summer and fall. Fine for cutting as the flowers last well in water.

Early Klondyke Orange Flare. The long-stemmed flowers of bright vivid orange are freely borne on 2 to 3 foot plants. Its most remarkable feature, however, is its early blooming habit. It blooms from mid-summer until frost. Pkt. 15c.



COSMOS, DAZZLER

SENSATION COSMOS

A superior type for cutting and all around use. Flowers 4 to 5 inches across on 3- to 4-foot plants.

Dazzler. A luscious shade of velvety crimson maroon. Pkt. 15c.

Pinky. A delightful rose-pink. Pkt. 15c.

Purity. Glistening white. Pkt. 15c.

Radiance. Winner of the highest award in the 48 All America trials, Radiance introduces two entirely new colors in Sensation Cosmos: Striking deep rose and rich crimson, in the first bi-color Cosmos ever to be developed. Pkt. 15c.

CYNOGLOSSUM (b) Grp. 2

Blue Chinese Forget-Me-Not

Firmament. A hary biennial of the easiest culture, forming strong plants about 18 inches high and producing through the summer months sprays of Forget-Me-Not-like flowers. Will bloom the first season if sown early. Pkt. 10c.

DAHLIAS

From Seed (rp) Grp. 5

Improved Unwin's Dwarf Hybrids. These double and semi-double Dahlias are one of England's best contributions to the flower world. They grow from 18 inches to 2 feet tall and come in many delightful shades. Plants are compact and are as easy to grow as Zinnias. Bloom the whole summer. **Mixed colors.** Pkt. 25c.

Coltness Hybrids. Dwarf Dahlias which grow but 12 to 18 inches tall. Masses of single flowers in many brilliant colors make beautiful borders; also very useful for cutting as the flowers are borne on stiff stems. Flowers from early July to frost and require little care.

Mixed colors. Pkt. 25c.

DAISIES

AFRICAN GOLDEN DAISIES

Dimorphotheca (a)

The plants are of branching habit, growing about 15 inches high. An easily cultivated annual. **Mixed.** Pkt. 15c.

PAINTED DAISY, *Pyrethrum* (p) Grp. 5

This plant is cousin to the Chrysanthemum and Matricaria and should play an important part in many a well planted garden. Height, 1 to 3 feet.

Single Mixed. Radiating petals in many tones of rose and red about a golden center. Pkt. 20c.

SHASTA DAISY

Chrysanthemum maximum (p) Grp. 5

Popular hardy perennial bearing large white blooms with handsome yellow centers. They are excellent for border plantings and especially pleasing in bouquets. **Pkt. 15c; Dble. 25c.**

SWAN RIVER DAISY

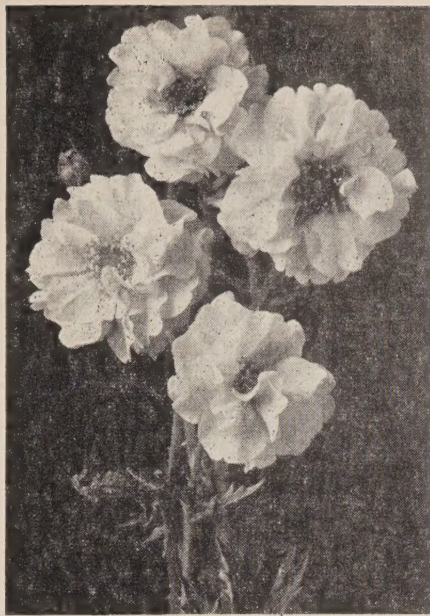
Brachycome (a) Grp. 2

Brilliant free-flowering annual blooming throughout the summer and suitable for beds or borders. The dainty flowers resemble small Cinerarias. Height, 6 to 12 inches.

Mixed Colors. Pkt. 10c.

TRANSVAAL DAISY, Gerbera (p) Grp. 5

The large Marguerite-like flowers come in all shades of pink, salmon, red and yellow and are borne on long, stiff, straight stems. They require a warm, sunny position, good drainage and protection from frost. **Single. Pkt. 25c.**



GEUM

FLOWERING TOBACCO

Nicotiana (a) Grp. 4

Stately plants producing large, trumpet shaped blooms until frost. Fine for beds and borders. Height, 3 feet.

Affinis Hybrids, Mixed Colors. Pkt. 10c.

FOUR O'CLOCK

Mirabilis (a) Grp. 1

Petticoat. A brand new form of the ever popular and colorful Four o'Clock or Marvel-of-Peru. The sepals of each flower are brightly colored to match the petals, giving a charming flower-within-the-flower effect. **Mixed colors. Pkt. 10c.**

FOXGLOVE, Digitalis (b) Grp. 5

This ornamental hardy plant is used extensively for naturalizing in shrubby borders and along the edges of woods. It grows well under almost any conditions, giving a wealth of bloom during June and July. Height, 4 to 6 feet.

Shirley Mixed. Pkt. 15c.

GAILLARDIA

Blanket Flower (p) Grp. 5

Tones of orange, yellow, red, and maroon, often beautifully combined in a single blossom, make these flowering plants gay ornaments of the garden all summer. Height, 1 to 2 feet.

Grandiflora Portola Hybrids (p) Semi-double blooms of magnificent size and broad overlapping petals, golden tipped around glowing centers of bronzy red. **Pkt. 10c.**

Sunshine Hybrids. Pkt. 25c.

GERANIUM SEED (p) Grp. 5

A mixture of many lovely shades and types. Suitable for pot plants. Also excellent for the garden. Where frosts are encountered set plants, pot and all, in the garden for summer bloom. **Pkt. 25c.**

GEUM, Avens (p) Grp. 5

Beautiful hardy perennials, bearing profusely large, showy, double flowers all through the summer. An elegant flower for bouquets. Height, 18 inches.

Lady Stratheden. A new golden yellow with large full flowers of great beauty. **Pkt. 15c.**

Mrs. Bradshaw. Large, double, brilliant orange-scarlet. In flower throughout the entire summer. **Pkt. 15c.**

GODETIA, Satinflower (a) Grp. 2

Very handsome annual plants, especially suited for semi-shady locations. Sow in spring in the open and thin to 8 or 10 inches apart. The flowers are bright and colorful and the single sorts are not unlike the Azalea in form.

Tall Double. Long graceful spikes are decorated with double blossoms resembling satin pompons one above another. Height, 2 feet. **Pkt. 10c.**



GODETIA



DELPHINIUM, PACIFIC HYBRIDS

DELPHINIUM (p) Grp. 5

Pacific Hybrids. A new strain of Delphiniums originated on the Pacific Coast to grow under Pacific Coast conditions. Huge flowers, 2½ to 3½ inches across, beautifully spaced on well balanced tall spikes. Highly resistant to mildew. Color range excellent and comes practically 100% double florets.

Blue Bird. Brilliant blue. **Pkt. 50c.**

Galahad. White. **Pkt. 50c.**

Guinevere. Pink-lavender. **Pkt. 50c.**

Summer Skies. Light blue. **Pkt. 50c.**

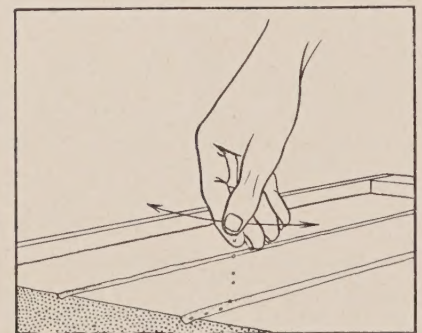
Mixed, Pkt. 25c.

Chinensis, Cambridge Blue (a) Grp. 2. Branching heads of azure blue flowers. plants three feet high. **Pkt. 15c.**

DIANTHUS

See Pinks

Sowing the Seed



Mark the surface of the flat or seed bed by pressing a narrow edged ruler or garden label lightly into the surface. Sow the seed thinly in the depressions, either directly from the seed packets, or by sifting it out between your thumb and forefinger. The seed should be covered lightly. A fine meshed kitchen screen serves very well for this purpose. Place a handful of dry soil mixture in the screen and sieve onto the seed drill.



DEPENDABLE PEST CONTROLS FOR HOME AND GARDEN

A **BUG-GETA** Pellets — Kills Snails, Slugs, Cutworms — handy, easy to use. Economical metaldehyde-arsenical bait in pelleted form. These pellets are easy to distribute in "hard to reach" areas and go 4 times further since they hold up longer than old style meal bait mounds.

OR 100—12 oz. package.....	35c
OR 101—2 lb. package.....	75c
OR 102—5 lb. package.....	\$1.50
OR 103—25 lb. package.....	6.25

B **BOTANO** deluxe — the finest multi-purpose dust on the market. Contains 2 potent insecticides, lindane and methoxychlor, and two well-proved fungicides. Look at its uses:

GENERAL FOLIAGE DUST FOR FLOWERS AND VEGETABLES

- BOTANO** deluxe is fine on foliage and kills a wide variety of sucking and chewing insects such as Aphids, Thrips, Mealybugs, White Flies and many chewing insects such as Beetles, Caterpillars, pear and cherry Slugs, etc. It also controls Powdery Mildew, Black Spot and Rust.
- Soil Insects: Wireworm, Seed-Corn Maggot, Diabrotica Larvae: Treatment: Dust 8 ounces in top soil for each 160 square feet of area. Treat Strawberry Root Weevils on Strawberries, Camellias, Rhododendrons, Azaleas, Primroses, Ornamentals in the same manner.
- Earwigs—Dust heavily in all frequented areas. **BOTANO** deluxe acts as a contact poison and two to three treatments a season will usually suffice.
- Lawn Moth (sod webworm)—Dust one lb. of **BOTANO** deluxe per 1000 sq. ft. of lawn area and soak into the lawn. Use 2 or 3 such treatments per season.

OR 104—8 oz. Duster.....	79c
OR 105—2 lb. Refill.....	\$1.75
OR 106—5 lb. Refill.....	3.95

C **ORTHO** Lawn Groom — the newest thing in scientific lawn treatment . . . it does three big jobs in one application:

- Feeds the lawn
- Kills the weeds
- Controls insects

5 lbs. covers 1000 sq. ft. of lawn . . . about 3 treatments per year will give you a velvety green lawn, free of weeds and soil insects.

OR 107—5 lb. Carton.....	\$1.69
OR 108—10 lb. Carton.....	2.95
OR 109—25 lb. Bag.....	6.05

D **ISOTOX** Garden Spray — Economical, modern multi-purpose spray containing the sensational new lindane insecticide. Effective general foliage spray against Aphids, Thrips, Beetles, Roses, Camellias, other flowers and shrubs against many chewing and sucking insects. Control Wireworms, many soil pests, also Earwigs, Lawn Moth, (Sod Webworm), Flies. Has very broad usage.

OR 110—2 oz.	59c
OR 111—4 oz.	\$ 1.00
OR 112—pint	2.95
OR 113—1/2 gallon.....	10.25

E **ORTHORIX** Spray — Astounding new fungicide for year round use. Controls Mildews—Rose mildew, Peach leaf curl, San Jose Scale and many other plant pests! For both foliage and dormant spraying of flowers, fruits, ornamentals and berries. Excellent soil corrective. Contains remarkable wetting agent that makes every drop highly effective. Here's what John Paul Edwards, eminent rose grower, says, "I was able to *completely control* powdery mildew on my roses and produce plants with outstanding luxuriant green foliage and an abundance of blooms . . . simply by use of **ORTHORIX** Spray."

OR 114—pint	75c
OR 115—quart	\$ 1.25
OR 116—gallon	4.00
OR 117—5 gallon.....	15.00

F **TRIOX** — Here's what you've been looking for to get rid of those weeds on driveways, curbs and gutters, paths, brick or gravelled walks, tile patios . . . or along fences and around the garage and similar structures. Kills weeds, poisons soil and prevents plant growth 1 to 2 years! Do away with slow, back-breaking hoeing and grubbing.) Kill weeds the easier chemical way with **TRIOX**. Simply mix with water—apply with sprinkling can or sprayer. *Economical.*

OR 118—1 quart.....	\$1.00
OR 119—1 gallon.....	3.50

TRD. MKS. BUG-GETA, BOTANO, ORTHO, ISOTOX, TRIOX, REG. U. S. PAT. OFF.



CALIFORNIA SPRAY-CHEMICAL CORP.

ORNAMENTAL GOURDS

(ac) Grp. 3

Ornamental Gourds are easily grown in rich soil, where they will produce plenty of fruits. They may be trained on trellises and the ripened fruits used for ornaments. Special mixture of large and small kinds. **Pkt. 10c.**



ORNAMENTAL GOURDS

HOLLYHOCK, *Althea* (p) Grp. 5

The beautiful color effects produced by the planting of these flowers render them indispensable for the old-fashioned garden or the herbaceous border. Height, 6 to 12 feet.

Indian Spring (a). Semi-double annual flowers of bright rose and rosy carmine. Its many flowered branches produce a continuous show until frost. Sow fall or early spring. Flowers five months from seed. **Pkt. 15c.**

Chater's Double (p). Deep rose, salmon rose, scarlet, sunflower yellow, and white. Separate colors. **Pkt. 10c.**



HOLLYHOCK, INDIAN SPRING

LARKSPUR (a) Grp. 3

Annual Delphinium are adorned with finely cut, feathery foliage which sets off to advantage the handsome long floral spikes of double blossoms.

GIANT IMPERIAL. Tall, upright, compact, basal branching in habit, the Giant Imperials have replaced all other types of Larkspurs for general garden use. Their Delphinium-like spikes of double florets are carried on stout stems 4 to 5 feet.

Carmine King Improved. Rich, deep carmine and salmon flowers on long spikes; 3 to 4 ft. stems. **Pkt. 15c.**

SUPREME LARKSPUR (a) Grp. 3

A superb new strain of base branching larkspur. Huge spikes of fully double wide petaled flowers in outstanding new colors. The plants are tall, of ideal upright habit and uniform height.

Each Color. Pkt. 15c

Dark Blue. Clear rich purple flowers.

Lilac. Large double florets of clear lilac.

Pink. Clear deep pink florets. A superb cut flower as the color actually improves under artificial light.

Rose. Pure deep rose of exceptional beauty. A little lower in growth than other Supreme Larkspurs.

Salmon. A rich shade of true salmon in largest flowered of all larkspurs.

White. Huge double broad petaled flowers of purest white.

Supreme Mixture. Dark blue, lilac, pink, rose, salmon, white, plus additional colors from the originator's special plantings. **Pkt. 15c.**



LARKSPUR, GIANT IMPERIAL

LINARIA

Miniature Snapdragon (a) Grp. 3

This interesting annual bears flowers which resemble miniature Snapdragons ending in single elongated spurs. Height 8 to 18 inches.

Fairy Bouquet. Small spikes of dainty, pastel flowers. Fragrant. Free-flowering and lovely in the border. **Pkt. 15c.**



LOBELIA, CRYSTAL PALACE

LOBELIA (a) Grp. 4

A dainty and continuous blooming annual of compact growth, remarkable for its profusion of beautiful blue flowers. Unexcelled for edging, ribbon beds, hanging baskets or window boxes. Height, about 6 inches.

Compacta, Cambridge Blue. A beautiful large flowered, light blue variety. Green foliage. **Pkt. 15c.**

Compacta, Crystal Palace. Erect and very free blooming. Best dark blue for edging. Fine for pots. **Pkt. 15c.**

Sapphire. A superb variety of pendulous habit; large deep blue flowers with conspicuous white eye. For hanging baskets and window boxes. **Pkt. 15c.**

LUPIN, Sun Dials (p) Grp. 1

Russell Lupins. Long, closely set spikes of flowers in a great variety of rich colors—deep yellows, oranges, reds, and brilliant bi-colors never seen in Lupins before. The florets are large with flat fan-like back-standards, and unlike all other Lupins, most of the spikes retain their florets throughout the whole period of development. **Pkt. 25c.**

MARIGOLD (a) Grp. 2

AFRICAN TALL DOUBLE (*Tagetes erecta*). Very large globular flowers composed of compact tubular or quilled petals. The stems should be cut carefully to avoid the somewhat disagreeable odor when bruised. Height, 2½ ft.

All Double Orange. An improved strain which produces practically one hundred per cent double flowers. **Pkt. 10c.**

All Double Lemon. A fluffy fully double variety with pale yellow blooms loosely quilled. **Pkt. 10c.**

Mixed. Pkt. 10c.



MARIGOLDS, MISSION GIANTS

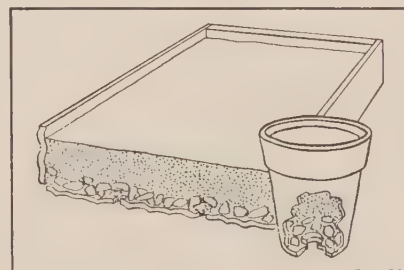
CARNATION FLOWERED, Guinea Gold (African). Carnation-like petals and unusually brilliant golden color make this flower outstanding among Marigolds. It lacks much of the pungent odor of other Marigolds. The plant blooms very freely. Height, 2 feet. **Pkt. 15c.**

Gigantea, Full Double Mixture. Flowers are largest ever known in Marigold. A mixture ranging from deep orange through golden orange, deep golden yellow, light yellow, lemon yellow, and a delightful new shade of primrose. **Pkt. 15c.**

DWARF FRENCH, Double Harmony Hybrid. Without question one of the very finest Marigolds introduced. Flowers charming and distinct. Scabiosa-like in formation with tubular deep orange center petals flanked by broad velvety dark maroon-brown guard petals. Plants are dwarf, about 1 ft. high, compact, free blooming. Early and attractive for cutting. **Pkt. 20c.**

Scarlet Glow. Single. 10 inches tall, well covered with flowers 1¾ inches across, which vary interestingly from deep scarlet to tangerine yellow. **Pkt. 15c.**

Drainage is Important



For growing seed indoors either pots or shallow boxes known as flats, are satisfactory. Whichever you use be sure the drainage is good. In the case of flats see that the boards on the bottom are spaced about a quarter of an inch apart. When filling the seed flats place some material such as granulated peat moss along the cracks to prevent the soil from washing through the bottom. On the bottom half inch of the flat place gravel or soil screenings to help the drainage. If pots are used be sure to put some drainage material in the bottoms.

MISSION GIANTS, Mixed. Honorable Mention, All-America Selections, 1942. Large, 2½ inch flowers of bright, rich, clear yellow, on luxurious, large plants. Flowers are of double, incurved, Chrysanthemum-like form, and very attractive. Blooms late and lasts until frost. Uniformly three to five feet tall. **Mixed. Pkt. 15c.**

MINIATURE, Yellow Pygmy. Honorable Mention, All-America Selections, 1940. Light lemon yellow. Lilliput French double type, growing only 8 inches tall and compact. Flowers 1¼ inches across, freely produced. Excellent for edging and potting. **Pkt. 15c.**

Miniature Spry. Extra dwarf, double French type; compact and uniform, so may be used for edging. About 9 inches tall, early blooming, with very light orange crested center and maroon outer petals. Profuse flowering. **Pkt. 15c.**

MIGNONETTE

Reseda Odorata (a) Grp. 4

This old-fashioned flower still enjoys the greatest popularity. Grown for its sweet perfume, which is most pronounced when grown in a light sandy soil. Height, 6 to 10 inches.

Machet Mixed. Includes only large flowering varieties of sweet scented Mignonette. **Pkt. 10c.**

MORNING GLORY

Ipomoea (ac) Grp. 1

Climbers of rapid growth, with beautiful and varied flowers, invaluable for covering walls, trellises, arbors.

Blue Star. An entirely new color for Ipomoea; a fine sky blue color accentuated by five deeper blue midribs to form an attractive star. The large flowers are produced profusely on the 8- to 10-foot vines. Early blooming. **Pkt. 25c.**



MORNING GLORY, PEARLY GATES

Heavenly Blue. A variety that is bringing new popularity to Morning Glories. It is an early blooming climber, literally covered with lovely flowers of sky-blue. Flowers 3½ inches across and blooms until frost. **Pkt. 15c.**

Pearly Gates. Glistening white flowers are 4 inches or more across when fully open. The vigorous, rapid growing vines produce many flowers. **Pkt. 15c.**

Scarlett O'Hara. An entirely new color in the popular Morning Glories — rich dark wine red or deep rosy crimson. Flowers 4 inches in diameter, freely produced on fast growing vines. Very showy for covering a fence or trellis. The dark green foliage does not make a heavy growth, leaving plants graceful in appearance. **Pkt. 15c.**

Mixed Imperial. These are beyond question the handsomest of all Morning Glories. The flowers are of gigantic size. **Pkt. 10c.**

NASTURTIUM (a) Grp. 1

GLORIOUS GLEAM HYBRIDS. Delightfully sweet scented; double. Color range includes brilliant blend of salmon, golden yellow, orange scarlet, cerise, cream, orange, maroon and crimson shades. **Pkt. 10c.**

Golden Gleam. Golden yellow, sweet scented. **Pkt. 10c.**

Scarlet Gleam. Fiery scarlet. **Pkt. 10c.**

DWARF GOLDEN GEM MIXTURE. An evenly balanced range of colors on dwarf, compact gem-like plants. Ideal annual for border and edging use. Plants are dwarf and compact, totally without runners. **Pkt. 10c.**

DWARF OR BEDDING VARIETIES. Of dwarf, compact growth. Excellent for borders or for bedding, forming plants about 1 foot high by 1 foot across. **Finest Mixed. Pkt. 10c.**

TALL OR CLIMBING NASTURTIUMS. For covering trellises, fences, arbors, trailing from vases, over rock-work, etc., nothing can equal their great quantities of bloom from early summer until frost. The seed pods can be gathered while green and tender for pickling. Height, 8 to 10 feet. **Finest Mixed. Pkt. 10c.**



NASTURTIUM

NEMOPHILA (a) Grp. 1

Small cup-shaped blossoms which are fine ground cover for bulb beds. Grows about 6 inches high.

Baby Blue Eyes (Insignia Blue). Sky blue with white eyes. **Pkt. 15c.**

NEMESIA (ra) Grp. 4

This plant is excellent for edging purposes. Plants send up many slender stalks crowned with fairy-like flowers, something like a Schizanthus. When the flowers fade they may be trimmed back and will bloom again. Their colors run from the brightest reds, yellows, oranges, to the brightest blues and purples.

Compacta Triumph, Finest Mixed Colors. Height 6 to 12 inches. **Pkt. 15c.**

PANSY, Heart's Ease (b) Grp. 5

Swiss Giant. Within the last few years the blossoms of this strain have been remarkably improved in every way. The plants are compact in habit and produce immense flowers for a long blooming season. Attractive shades. **Pkt. 35c.**

Popular Bedding Mixture. These are the popular saucy-faced beauties that everybody loves, comprising the finest varieties in all colors. **Pkt. 25c.**

FOR YOUR ROCK GARDEN



ROCK GARDEN ANNUALS

Mixed

This mixture of over 30 varieties, not exceeding 12 inches in height, will provide blooms through the entire season. Planted as early as possible, the gardener should have blooms by the end of May. A succession of blooms will follow until late fall when frost will destroy the flowers. A second lot of blooms may be enjoyed on most plants if they are cut back to two inches of the crown and properly watered. **Pkt. 25c.**

ROCK GARDEN PERENNIALS

Mixed

A mixture of over 50 rare rock garden perennials with a maximum height of six inches. Some of the items will bloom almost as soon as the frost is out of the ground. Others will bloom later in the year, insuring the grower blooms all season. A planting, carefully made in a suitable place, should remain a beauty spot for a number of years without reseeding if given minimum care. **Pkt. 50c.**

DIANTHUS, Perennial

Rock Garden Mixture

Twenty varieties of unusual species of dwarf perennials. When well grown, many plants will produce such an abundance of blooms that daily cutting of flowers will not decrease the loveliness of the plant. With an occasional replanting should last several years. **Pkt. 50c.**



PETUNIA, GIANTS OF CALIFORNIA

PETUNIA (a) Grp. 4

The seed may be started indoors early in the year in seed boxes and later transplanted or sown out of doors in the spring. Cover very lightly and apply water with a fine spray. Be careful not to discard the smaller and weaker seedlings. From these the finest flowers are often obtained, the coarse growing plants frequently reverting to the common types.

FIRE CHIEF—All American Gold Medal Winner. Described as Novelty, page 3; pictured in color on front cover.

Ruffled Nana Compacta (Little Giants). These 8- to 10-inch plants remain so compact and erect all season that this new variety is destined to become the most popular for the home garden. Ruffled, deep-throated, ball-shaped flowers of medium size continue to keep the plants completely covered all season. 3-inch blooms in unusual colors range from deep crimson to white in unique shades and markings. **Pkt. 35c.**

HYBRIDA NANA COMPACTA. 1 ft. A fine type of Petunia for small beds and borders; often used for pot culture. This Petunia keeps its dwarf stature very well throughout the blooming season.

Rosy Morn. Soft, rosy pink with white throat. **Pkt. 15c.**

Heavenly Blue (Silver Blue). Enchanting shade of light silvery blue. Dwarf. **Pkt. 10c.**

Snowball. Flowers pure white. **Pkt. 35c.**

Velvet Ball. Deep mahogany red flowers, larger than other in this group. **Pkt. 25c.**

Mixed. **Pkt. 10c.**

PETUNIA ALL-DOUBLE

Pan-American All-Double. See description and picture on page 3.

PETUNIA GRANDIFLORA (Large Flowered)

Dazzler. A new low-growing variety that maintains its uniform habit throughout the season. The color is a dazzling orange scarlet. Invaluable for borders and bedding. **Pkt. 25c.**

Elk's Pride. Very large, deep purple. **Pkt. 25c.**

Snowstorm Improved. Glistening white shading yellow in throat. **Pkt. 25c.**

PETUNIA LARGE FLOWERED FRINGED

Theodosia. Soft rosy pink with contrasting golden yellow veined throat. An outstanding variety in this class. **Pkt. 25c.**

PETUNIA FRINGED AND RUFFLED

Super Fluffy Ruffles. A new ruffled and frilled type of Petunia that has the appearance of being almost double. Flowers are very large with a deep throat. The mixture is well balanced with shades of pink and white, salmon, salmon pink, deep rose, rose, crimson, and light blue. **Pkt. 25c.**

RUFFLED GIANTS OF CALIFORNIA

Glamour. Honorable Mention, All-America Selections, 1942. Large flowers of salmon-rose with brown veining on white in the throat. An excellent color under artificial light and outdoors. Most flowers have wavy, fringed petals although a few come plain edged. **Pkt. 50c.**

GIANTS OF CALIFORNIA

A dwarf sturdy growing type. Flowers are beautifully ruffled and fringed with open well-marked throats.

Ramona Strain. Dark and light shades mixed. **Pkt. 25c.**

PHLOX DRUMMONDI (a) Grp. 2

Well branched plants with large clusters of many beautiful round-petaled flowers which grow about 1 inch across. Varied colors and color combinations. **Mixed only. Pkt. 10c.**

Gigantea Brilliant. The individual flowers of this type are large and borne most freely in massive trusses on strong, upright plants. Excellent for borders and beds as well as for cutting. **Mixed colors only. Pkt. 25c.**



PHLOX, GIGANTEA BRILLIANT

PIN CUSHION FLOWER

(See Scabiosa)

PINKS (a) Grp. 2 (DIANTHUS)

Plant in full sun in any good garden soil. Sow in spring when danger of frost is past.

Heddewigi (Double). Ten inches. Very desirable pink in many color combinations for rock garden or borders. **Pkt. 25c.**

Heddewigi Gaiety. The best annual garden pink. The large fringed flowers have a bewildering variety of pink, white, red and maroon coloring, in decorative patterns, on dwarf plants. There are numerous double and semi-double forms. **Pkt. 25c.**

Dianthus Plumarius (Clove Pinks). Perennial. Double. **Pkt. 25c.**

Dianthus—Sweet Wivelsfield. Quite distinct from the annual Sweet William. It has a great variety of color and long blooming season. Magnificent bedding subject. **Single Mixed. Pkt. 10c.**



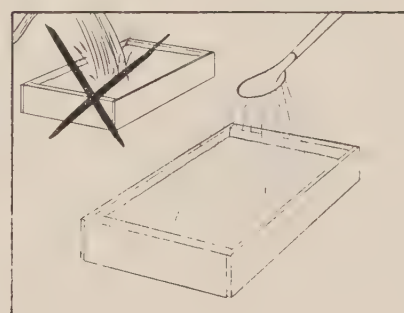
ICELAND POPPIES

POPPIES, Papaver

Poppies have long been favorite garden flowers for their delicacy, as well as the simplicity of the buds and neatness of the foliage. The pure colors and fine texture of the petals make a good showing in the garden. All are easily raised from seed which should be sown where the plants are to remain, later thinning to 8 or 12 inches between plants. In the North, sow in the open ground as early as possible in the spring; in California, sow from October to March.

Oriental Poppies (p) Grp. 5. Hardy plants with numerous leafy stems about 2½ feet bearing large showy flowers with a conspicuous black blotch on each petal. **Mixed. Pkt. 25c.**

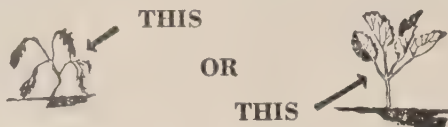
Water--But Gently



Water the seed bed thoroughly, but gently with a fine spray. A coarse spray or stream of water will wash the seed out of the soil. For this reason, when using an outdoor seed bed, it is well to have a cover available to place over the seed bed during rainy spells. This should be supported several inches over the seed bed to allow free circulation of air.

Be sure to keep the seed bed moist. Excessive dryness will prevent germination.

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The hormones and vitamins (B, and others)
found together only in



THE HORMONE-VITAMIN POWDER

Stop the shock and wilt usually inevitable after transplanting all kinds of plants. . . . Simple, Safe, Economical to use.

1/2 oz. packet 25c, 3 oz. can \$1.00, 1 lb. can \$4.00.

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THE ORIGINAL
2,4-D
WEED KILLER



Spray your lawn with Weedone. Grass is not affected, but dandelions, plantains and other noxious weeds curl, dry up and die. Weedone kills poison ivy, poison oak, bindweed and honeysuckle, too. Safe for people and pets. Does not corrode spray equipment.

Weedone Plastic Applicator. Cap makes handy 1/2-oz. measure and fits any screw-top gallon jug. All plastic; no sharp metal edges to cut and scratch hands.

ONLY
49¢

8-oz. Can \$1.00
1-qt. Can \$2.75
1-gal. Can \$6.95
5-gal. Can \$25



ROOTONE

Reg. U. S. Pat. Off.

ROOTONE, the plant hormone powder. Dip cuttings in Rootone before planting to give faster, better, more successful rooting. Mix flower, vegetable or grass seed with Rootone before planting to give faster growth and stronger roots. Easy to use. 1/4 oz. packet 25c. 2 oz. jar \$1.00. 1 lb. can \$5.00.



Geranium Cuttings. Treated and Untreated

Secret of bigger, better potted plants, garden flowers, vegetables!

Feed PLANTABBS to everything growing in your house and garden. If you don't get lovelier plants and a greater yield of finer-flavored vegetables, you get your money back. PLANTABBS are convenient, clean, odorless, highly concentrated PLANT FOOD TABLETS which help produce sturdy stems, luxuriant leaves, strong roots, gorgeous blooms, perfect form and color.

Box of 10 tablets 10c; 30 tablets 25c; 75 tablets 50c; 200 tablets \$1; 1000 tablets \$3.50.

Fulton's
PLANTABBS

PLANT FOOD TABLETS, PLUS B.

Test Your Soil!

Grow Bigger Flowers,
Better Vegetables
with the Amazing

SUDBURY
Soil Test Kit

Take the Guesswork Out
of Gardening

Now, you can be sure of the garden results you've always hoped for! Test your soil before planting and have the finest garden you've ever known—avoid disappointing results.

Save Both Time and Money. The Sudbury way is the fancier's guide to prize-winning flowers and vegetables—first aid to both amateur and expert. Cuts fertilizer costs. Tells how much nitrogen, phosphorus, and potash to use. Also whether lime is needed and how much for flowers, vegetables, etc. (125 shown on charts.) Over 100,000 Sudbury Soil Test Kits now in use! Easy to use. No knowledge of chemistry needed. Tests are amazingly easy to make—require little time.



Jr. Professional Model
Rich blue Leatheretex case, 4 1/4 in. x 8 in., with complete equipment and solutions for at least 50 tests. Refills available. Easy-to-follow instructions and valuable soil information. Only **\$4.75**

Home Garden Model
Contains complete instructions, equipment and solutions for 20 tests. Only **\$2.50**

Prevent Dog Damage

Protect

Shrubs
Evergreens
Flowers
Vegetables
Porches
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Keep dogs away with Sudbury Liquid Chaperone. Easy to use. Harmless, odorless . . . you can't smell it but dogs can. Long lasting—won't dissolve in the rain. Also keeps cats away.

SUDBURY
Chaperone 8-ounce bottle \$1 Only

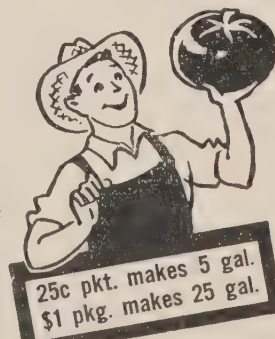


WEEDDUST

TRADE-MARK

Kill those here-and-there weeds by shaking Weedust directly from the ready-to-use can. For smaller lawns, for scattered weeds, for jobs that don't require a sprayer, Weedust in dry powder form is the ideal 2,4-D weed-killer.

12 Oz. Sifter Can 75c.



25c pkt. makes 5 gal.
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MORE TOMATOES
and more

SEEDLESS tomatoes
WITH

FRUITONE

REG. U. S. PAT. OFF.

This plant hormone spray will help develop a better set and a bigger crop of tomatoes. If the spray hits the blossoms *after* blooming and *before* pollination, the tomatoes will be seedless. Simple and easy to use, Fruitone also helps grow big berries on berry-bearing shrubs and stops pre-harvest drop on fruit trees.

ICELAND POPPY (p) Grp. 5. (**Nudicaule**). A hardy Poppy slightly resembling Shirley. Different in habit and contains many shades of yellow and orange. Height, 18 inches.

Kelmscott Strain. A superb mixture. All colors. **Pkt. 35c.**

SHIRLEY (a) Grp. 1. Most charming Poppy for the garden. The plants, with their deeply cut foliage, slender, hairy stems and silky petaled blossoms, often fluted, present a gay, airy picture. Height, 18 inches. **Pkt. 10c.**

Shirley Double Mixed. Mixture of the best colors. Full double and semi-double flowers in a great variety of colors. **Pkt. 10c.**

Sweet Brier (Double Annual Shirley). Full, double begonia-like flowers of a beautiful deep rose pink. One of the finest strains of double Shirleys for the garden. **Pkt. 10c.**



ESCHSCHOLTZIA, RAMONA HYBRIDS

CALIFORNIA POPPY

Eschscholtzia (a) Grp. 1

Grandiflora Hybrids. Large flowering varieties in the most exquisite shades of gold, copper, bronze, scarlet, purple and crimson. **Mixed Colors. Pkt. 10c.**

Ramona Hybrids. A new strain containing many lovely shades. The plants grow compact and upright, with flowers beautifully frilled. **Mixed Colors. Pkt. 10c.**

Aurantiaca, Orange. The famous California Poppy. **Pkt. 10c.**

PORTULACA

Moss Rose (ra) Grp. 1

Brilliant hardy annual of easy culture; excellent for massing in beds, edging or rock work, thriving best in a light, sandy soil and a sunny situation. Flowers of the brightest colors. Height, 6 to 10 inches.

Double Mixed. Pkt. 25c.

Single Mixed. Pkt. 10c.

RED HOT POKER

Tritoma (p) Grp. 5

A perennial, not strictly hardy, but will live through the severe winters with a protective covering of leaves or manure; or the roots may be lifted and carried over winter in sand in a cellar. Height, 4 to 6 feet. It harbors gladiolus thrips.

Mixed Hybrids. Pkt. 25c.

SALPIGLOSSIS

Painted Tongue (a) Grp. 2

For delicate grace, richness of coloring, and velvety texture, the regal salpiglossis has practically no equal. From a low base of leaves rise slender wiry stalks which bear one or more large Lily-like flowers in a magnificent range of colors. Height, 1 to 2½ feet.

Superb Mixed. Pkt. 10c.

POT MARIGOLD

See **Calendula**

SALVIA, Flowering Sage

Scarlet sage is usually treated as an annual. Start the seed from January to May, and set out plants when weather becomes warm. Perennial in mild climates.

Bonfire (Grp. 4). The crimson spikes grow erect above the foliage, forming handsome, globular bushes. **Pkt. 25c.**

Zurich (Grp. 4). Dwarf and compact in growth, forming oval bushes 15 to 18 inches high, thickly studded with fine spikes of scarlet flowers. **Pkt. 25c.**

SCHIZANTHUS

See **Butterfly Flower**



SCABIOSA, HEAVENLY BLUE

SCABIOSA

Pin Cushion Flower (a) Grp. 2

Rosette. A beautiful Scabiosa of deep rose suffused with salmon. A "must have". **Pkt. 15c.**

Salmon Beauty. Pure salmon with huge flowers. Vigorous. The stems are long and stiff, making it a most popular flower for the garden or cutting. **Pkt. 15c.**

Imperial Hybrids Mixed. An improved Blue Moon type flower, entirely different from the existing Scabiosa varieties. Fully double, extremely large and deep. Petals broad and wavy, entirely eliminating the pincushion center; rich deep lavender blue. Tall growing and very upright with long, wiry, heavy stems in which the weak neck of the older type is completely eliminated. Ideal for cutting. **Pkt. 15c.**

Shasta. Pure white, very large flowers. **Pkt. 15c.**

Giant Hybrids. Mixed. Pkt. 10c.



SALPIGLOSSIS

HARDY PERENNIAL VARIETIES

Caucasica (p) Grp. 5. Giant Hybrids (Isaac House Strain). Fringed and ruffled, shades of blue from lavender to dark blue; very large flowers. **Pkt. 25c.**

SNAPDRAGON

Antirrhinum (a) Grp. 4

SUPER GIANTS, RUST RESISTANT

Campfire. Luminous scarlet. **Pkt. 15c.**

Copper Queen. Bronzy copper. **Pkt. 15c.**

Crimson. Fiery crimson. **Pkt. 15c.**

Paradise Rose. Rose pink. **Pkt. 25c.**

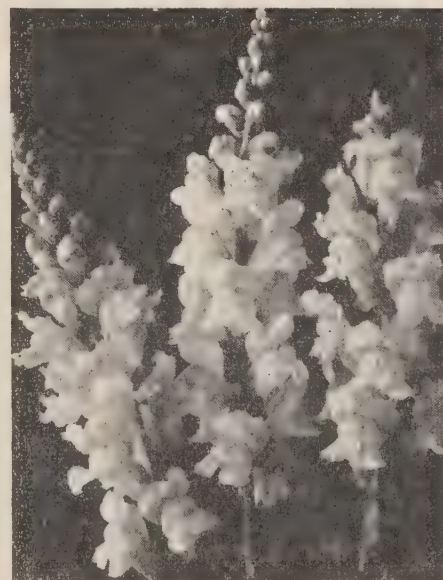
Rosalie. Rich, deep rose with underlying tone of topaz or amber. The plants are base branching and produce from 6 to 8 huge, long flowering spikes on which the florets are decidedly well arranged. An all-purpose Snapdragon. **Pkt. 25c.**

Cherry Rose. Described and illustrated in color on Novelty page, page 3. **Pkt. 25c.**

Yellow Giant. Deep yellow. **Pkt. 25c.**

Finest Mixed. Pkt. 15c.

Tetra. Largest flowered of all snapdragons, many individual flowers are ruffled. Seed comes in a superfine mixture including all the best snapdragon shades: orange, yellow, peach, canary, bronze, orchid, crimson, scarlet, pink, white. Main spike 2½ feet tall with many laterals. Excellent for cutting. **Pkt. 25c.**



SNAPDRAGON

STOCKS, Gilliflower (a) Grp. 4

These popular flowers are easily grown, are so highly fragrant, and of such great beauty that they deserve a place in every garden. The Early Giant Imperial class are half-hardy annuals. Stocks are biennials, but if sown in early spring will bloom the same year. They are also valuable for winter forcing. In California Stocks are popular winter annuals.

Double Large Flowering Dwarf Ten Weeks. A wonderful strain for bedding. Pkt. 15c.

Beauty of Nice. It follows the Ten Weeks class in season of bloom. The plants are pyramidal in shape, branching above the base. Excellent for bedding and cutting. Height, 16 inches.

Finest Mixed Colors. Pkt. 15c.

GIANT IMPERIAL. Long stems and imposing spikes of large flowers make this the outstanding variety. It is about as early as Beauty of Nice and resembles it in habit, except that the plant is less spreading and taller. Height, 2 feet.

Yellow (Buttercup). Pkt. 25c.

Blood Red. Pkt. 25c.

Rose. Pkt. 25c.

Lavender. Pkt. 25c.

White. Pkt. 25c.

Finest Mixed Colors. Pkt. 15c.

EVENING SCENTED STOCKS

The flowers are small, mauve colored, similar to the Virginian Stocks but are delightfully fragrant toward evening. They are especially sweet after a rain.

Matthiola Bicornis (p) Grp. 5. Pkt. 10c.

STRAWFLOWER or IMMORTELLE

HELICHRYSUM (a) Grp. 2. The finest of all Everlastings. They make unusually fine winter bouquets if cut when partially opened and dried slowly in a dry place, heads downward to keep the long stems straight. The centers of the double pompon-like flowers are nearly covered by the stiff overlapping petals. A wide range of brilliant and soft colors. Height, 2 to 3 feet. **Finest Mixed.** Pkt. 10c.

SUNFLOWER

Helianthus (a) Grp. 2

Sun Gold. New. Large double flowers of brilliant golden yellow. Free flowering. Pkt. 10c.

Red Sunflower. Tall single flowered variety with bright red blossoms. Pkt. 10c.



HELIANTHUS, SUN GOLD

SWEET PEAS



THE NEW CUTHBERTSON

The new Cuthbertson strain is the greatest development in Sweet Peas for many years. Heat and drought no longer spell the end of the Sweet Peas in the garden. Where other types do not perform well, Cuthbertson's are the answer. They are very rugged, producing tremendous blooms on long stems. Ten days earlier than Spencers.

Frank G.. Lavender.

Janet. White, black seeded.

Kenneth. Crimson.

Lois. Rose pink.

Tommy. Blue.

Cuthbertson's Mixed Blend. An excellent range of 25 to 30 colors, well balanced. Pkt. 20c.

SPENCER SWEET PEAS

CHOICE MIXTURE

Pkt. 10c; oz. 50c.

SEPARATE COLORS: Pkt. 10c; oz. 75c.

PINK AND ROSE SHADES

Rose Pink. Silver Medal, All-America Selections, 1940. Large, wavy, rose-pink flowers on white ground. New type, maturing between the early flowering and the Spencer classes. Is taller and has longer stems than either of the others.

Patricia Unwin. Salmon pink on a cream ground.

Pinkie. Rose-pink with large and frilled flowers. This variety is seldom affected by weather conditions and first-class blooms can be cut all during its long blossoming period.

Jack Hobbs. Cream-pink, flushed scarlet. One of the largest Sweet Peas ever introduced.

Miss California. The color is a beautiful shade of rich pink, deeply flushed and shaded with salmon. Unsurpassed for exhibition or cutting purposes.

LAVENDER AND BLUE SHADES

Ambition. Rich deep lavender, with a darker shade on the base of the standard and wings, lessening as the bloom ages. Gold Medal and Award of Merit.

Flagship. Deep navy blue.

Reflection. A beautiful shade of clear blue.

WHITE AND CREAM SHADES

Gigantic. An enormous white frilled flower of exquisite texture and artistic form. Black seeded.

Cream Gigantic. Large ruffled flowers of perfect form, free from pink or blush tinge. Black seeded.

ORANGE AND SALMON SHADES

Pirate Gold. Golden orange.

Smiles. Clear glistening salmon best describes this exquisite variety. The large flowers are beautifully waved and fluted.

CERISE SHADES

Mrs. A. Searles. Salmon-cerise, merging into a soft oriental red. A remarkable and distinct color.

Artiste. Clear Geranium pink; a rare color. Flowers are large and quite frilled. An outstanding Sweet Pea.

RED SHADES

Red Supreme. Deep crimson; an abundance of flowers on long stems.

Welcome. By far the best and most brilliant, dazzling, scarlet Sweet Pea. For exhibition or gardens it is supreme. Absolutely sunproof.

MAROON AND PURPLE SHADES

Warrior. Rich chocolate maroon. A magnificent variety which has held its place and popularity for a number of years.

Olympia. Deep rich purple of graceful form and immense size.

Culture of Sweet Peas

Sweet Peas are deep rooting and heavy feeding plants. We recommend a trench to be dug about 18 inches deep and 18 inches wide. In the bottom fork in about 6 inches of well-rotted manure. Fill in with soil in which is mixed a liberal quantity of well-rotted manure.

The actual sowing is done in a shallow trench 6 to 8 inches deep. Cover the seeds with 2 inches of soil and press firmly. The balance is filled in as the plants grow, thus establishing deeper roots than would otherwise be possible. Use one ounce of seed to 20 feet of the row and later thin out so that the plants will be 4 to 5 inches apart.

If flowers are kept picked and seed prevented from forming more and better bloom will be produced. Avoid overhead watering as it causes the flower buds to drop.

Time of Sowing: Spencer varieties may be sown in early October and lightly mulched in winter. Fall sowing gives finer flowers and longer stems and a slightly longer period of bloom.

In California, Early Flowering varieties are sown about August 1 and throughout the winter months. If sown in August they will bloom by November. Keep the surface of the bed cool by using a light mulch.

GIANT WAVED SWEET PEAS CHOICE SPENCER MIXED

This mixture is grown from a special formula which has been built up and perfected during many years. It contains over 40 of the very best standard varieties of the most recent introductions, all waved and giant flowering. **Pkt. 10c.**

SWEET SULTAN

Centaurea (a) Grp. 2

These beautiful long stemmed flowers with their soft velvety heads make very enchanting bouquets. They measure 2 to 2½ inches across while the entire plant stands about 2½ to 3 feet tall. You can grow them readily in any garden soil, and your friends are sure to admire them. **Mixed. Pkt. 10c.**

SWEET WILLIAM

Dianthus Barbatius (b) Grp. 5

A well known, attractive, free-flowering hardy biennial, producing a splendid effect in beds and borders with their rich and varied flowers. Height, 10 to 20 inches.

Single Varieties. Mixed. Pkt. 10c.

Double Varieties. Mixed. Pkt. 15c.



VERBENA

VERBENA (a) Grp. 4

One of the most popular garden annuals for beds and massing and for a gorgeous display during the summer months. Cannot be excelled, commencing to flower in July and continuing until frost. Height, 6 to 8 inches.

Floradale Beauty. A giant hybrid, the flowers varying from bright rose-pink to deep rose-red of exceptional brightness. Individual florets of perfect form, fully rounded, and average 1¼ inches across; heads 4 to 5 inches across. **Pkt. 15c.**

Hybrid Grandiflora Giant. **Mixed.** Very large flowers in lavender, white, pink and rose-red. **Pkt. 10c.**

VIOLA, Tufted Pansies (a) Grp. 4

Waller Franklin Formula Mixture. This blend of bright gay colors far surpasses any mixture of Violas we have seen. Bright shades of self colors of red, yellow, blue, and apricot combined with many shades which are blotched, undoubtedly make these Violas a supreme mixture. **Pkt. 25c.**

WALLFLOWER

Cheiranthus Grp. 5)

English Wallflower (p). Spring blooming low erect perennial, in appearance much like stocks but flowers include yellow, yellow-brown, red and almost black. Sweetly fragrant. In mild climates plant in fall for early spring bloom and where winters are severe they should be carried over in a frame and set out early in spring. May be sown early in March for bloom the first year but the former method gives better flowering plants. **Pkt. 15c.**

Siberian Wallflower (Cheiranthus Allioni) (b). This unusual little plant deserves a place in your rock garden or low border. Upright spikes bear numerous four-petaled flowers of dazzling rich orange. Flowers the first season from seed and when established will bloom all summer. Height, 1 foot. **Single. Pkt. 10c.**

ZINNIA (a) Grp. 1

One of the most showy and satisfactory of our hardy annuals for beds, mixed borders and for cutting purposes. Easy to grow in any good garden soil. They commence flowering early in summer and continue until frost.

CALIFORNIA GIANTS. This variety is taller than the Dahlia flowered type, 3 to 4 feet high, with long stems which make the flowers fine for bouquets. The blooms are large, flat and very graceful. **Finest Mixed Shades. Pkt. 10c.**

DOUBLE DAHLIA FLOWERED. 2½ feet. Enormous double flowers are produced on robust branching plants. The flowers usually have slightly hollowed center ringed with small, tubular florets. Crisp, fresh appearance.

Dream. Deep rosy lavender. **Pkt. 10c.**

Exquisite. Light rose, deep rose centers. **Pkt. 15c.**

Golden Dawn. Golden yellow. **Pkt. 10c.**

Illumination. Deep self rose. **Pkt. 10c.**

Oriole. Orange and gold bicolor. **Pkt. 10c.**

Polar Bear. White. **Pkt. 10c.**

Scarlet Flame. Bright scarlet. **Pkt. 10c.**

Will Rogers. Brilliant scarlet. **Pkt. 10c.**

Mixed. Pkt. 10c.

FANTASY. A new Zinnia type. Shaggy, medium sized flowers. Plant 2½ to 3 ft. high. Free blooming. Excellent cutting.

Wildfire. A rich, dazzling scarlet. Wildfire adds a distinct note of color and cheerfulness to the garden and will enliven any home when used in flower arrangements. Plants neat in habit, strong growing, and very free blooming, 2½ to 3 feet in height; coming into flower 45 to 50 days after seed is sown. **Pkt. 15c.**

Fantasy. Mixed Shades. Pkt. 15c.



ZINNIA, LILLIPUT



ZINNIA, FANTASY



ZINNIA, LINEARIS



ZINNIA, DAHLIA FLOWERED

RED RIDING HOOD. 1 foot. Of compact form, covered the entire season with double scarlet flowers not over an inch across. Effective in borders. **Pkt. 15c.**

SUPER CROWN OF GOLD, Pastel Tints. The finest large-flowered Zinnia, with large well formed flowers. Contains a wide range of pastel shades, including soft yellow, old gold, light pink, various shades of salmon, peach, and buff, cerise salmon, white, and cream, each petal overlaid at the base with deep golden yellow. Flowers are borne profusely throughout the season on strong, robust plants. **Mixed shades. Pkt. 15c.**

DWARF MEDIUM FLOWERED

Early Wonder. Earliest of all Zinnias and the best Double Giant type for locations with short seasons. 18- to 24-inch base-branching plants produce 3- to 4-inch flowers on wiry, almost leafless stems. Bred for cutflower use. Does well in cool climate. **In Mixed Shades only. Pkt. 15c.**

DOUBLE LILLIPUT. 15 inches. A charming dwarf which is excellent for low borders or edgings. The plants are of tidy habit and produce a bounteous supply of very double pompon flowers about 1½ inches across. The colors are bright. **Mixed. Pkt. 15c.**

LINEARIS. This little dwarf variety of Zinnia is most unusual and interesting. The flowers are single and of a lovely shade of golden orange, with a delicate lemon yellow stripe through each petal. Blooms are produced in great profusion. Height, 8 to 10 inches. **Pkt. 15c.**



Duthie's SPECIAL LAWN MIXTURE

The Best All-Purpose Lawn Grass Seed

A wonderful mixture that is the result of years of experimenting. It is especially prepared by us from the highest quality seeds that can be produced. It makes a smooth, green, velvety lawn with a thick bottom, free from common grasses which are inclined to produce clumps or knots. Only the very finest varieties of the most suitable grasses for making an even, thick turf are used in this mixture. The various grasses composing this well-balanced blend are fine-bladed and deep rooting, sure to produce the best results under average conditions of soil and climate. It is all plump, heavy seed free from chaff or weed seeds. Sow 1 pound for a plot 10 by 20 feet (200 sq. ft.); 100 to 150 pounds of seed are required to sow one acre.

Ask for Prices

Astoria Bent. This strain of Bent differs from the Seaside variety in that it does not send out stolons, but spreads underground, sending up many root stalks that produce a splendid turf. The growth is upright, of fine texture and is a richer green than Seaside Bent. It is more practical for lawns and succeeds best in heavy soils. Sow 1 pound to 200 square feet.

Seaside Creeping Bent. Coos County strain, is the true creeping bent. The plant is dwarf and it multiplies rapidly by sending out runners in all directions; from these, new plants are produced, which in turn grow more runners. The turf becomes matted, and if damaged it heals over promptly. Sow 1 pound to 200 square feet.

Chewings Fescue. Used extensively on putting greens, fairways and tees on golf courses, and does well on any kind of soil. It also produces a stiff, upright plant. Sow 1 pound to 150 square feet.

Creeping or Red Fescue. Fine, round bladed grass, excellent for lawns. Slightly reddish at base. Fine for shade. Hardy.

Kentucky Blue Grass. Makes an excellent lawn of a dark green color. It forms a fine mat, and with care and water makes one of the best lawns. Sow 1 pound to 200 square feet.

Moistland or Meadow Foxtail. A rugged grass, ideal for moist, low lying ground where other grasses will not do well. Sow 1 pound to 175 square feet.

Red Top. A fine-bladed grass that succeeds on almost any soil, although it does best under moist conditions. It is used in almost all lawn mixtures. Should not be planted by itself unless specifically recommended. Sow 1 pound to 200 square feet.

Rye Grass. A rapid growing grass where quick results are required. It is coarser than Kentucky Blue Grass and thrives in poor soil. It is used as a "nurse" crop in mixture to keep the lawn green while the better, slow-growing varieties are becoming established. Sow 1 pound to 150 square feet.

Shady Blue Grass (*Poa trivialis*). An ideal perennial grass for shady spots which is closely related to Kentucky Blue Grass, but somewhat finer and softer in texture. It is a creeper with an apple-green color. Requires plenty of water. Sow 1 pound to 200 square feet.

Shady Lawn Mixture. This grass is especially adapted for growing in very shady places or near buildings where other grasses will not grow. If you have a shady, barren place, try our Shady Lawn Mixture. Sow 1 pound to 200 square feet.

White Dwarf Clover. Very low growing sort, principally used in poor ground to give a green cover. Many like it in lawns, especially where grass does not do well. Sow 1 pound to 300 square feet.

HOW MUCH SEED?

You can figure how much lawn seed you need from the table below, which is compiled on the basis of 1 pound of seed for 175 square feet of lawn.

Size of Plot	Area in Sq. Feet.	Amt. of Seed
10x 20	200	1 lb.
20x 20	400	2 lbs.
20x 30	600	3 lbs.
20x 50	1000	5 lbs.
40x 50	2000	10 lbs.
50x 60	3000	15 lbs.
50x 80	4000	20 lbs.
50x100	5000	25 lbs.
100x100	10000	50 lbs.

How to Have A Good Lawn

A well made lawn will last a long time, so it pays to be thorough in preparing the soil.

Drainage is the first consideration. Water logged soil will not support a good turf. Tiling is one way to promote a good drainage; another is to work liberal quantities of sand and gravel into the subsoil.

Topsoil is important. In many gardens the site for the lawn is covered to a considerable depth with subsoil from the basement excavation. If you cannot prevent this the next best thing to do is to have the lawn site covered with a 6-inch layer of good loam. Into this top layer of live soil work garden compost, peat moss and commercial fertilizer.

At this point it is a good idea to rake the ground roughly and water it well to bring up the weeds. When they come up chop them off. Repeat the watering and hoeing until the weeds have been considerably reduced in numbers.

Roll the ground before seeding, to prevent it from settling unevenly, and then rake the surface lightly. Sow the seed so as to cover the ground thoroughly, and then cover it lightly with soil. Roll again so as to press the seed in firmly. If you have no roller, use boards and tramp on them so as to pack the ground firmly, but a roller is preferred.

Grass seed will germinate in from 8 to 15 days, according to the weather. If a lawn is made during the summer, the ground should be covered lightly with peat after the seed has been rolled, so as to retain the moisture. New lawns should not be allowed to dry out, not even for a half day. For the first 15 days the lawn should be watered twice a day if necessary. A lawn should be fertilized after the first cutting, and at least twice a year. Water well after applying.

WARNING: Do not use the so called rotted manure which is being sold to inexperienced gardeners. It may be full of wild clover and other weed seeds and pests. It is expensive when you take into consideration that a few pounds of good fertilizer is equal to a sack of manure. If you want a moisture-holding material for top-dressing use peat. We recommend the use of peat.

FERTILIZERS

Just a Little Thought--

But a Big Difference...

Grass is food for many creatures but what about food for the grass? We have it and can tell you all about its use. Good lawn fertilizer is a specialty of ours.

ALL SOLD AT CURRENT MARKET PRICES. ASK FOR QUOTATIONS

Ammonium Sulphate is a valuable fertilizer for all plants in which a large leaf development or rapid growth is desired. It will stimulate growth almost immediately. It is also used for top-dressing lawns, producing a thick velvet growth and discouraging the weeds. It is a highly concentrated nitrogenous product, containing 25¼ per cent ammonia, 20¼ per cent nitrogen. One pound to 200 square feet is sufficient application for lawns.

Bone Meal. Extra fine; is a fertilizer recommended for lawns, rose bushes, grape vines, especially where a moderately slow fertilizer is needed for the deep-rooted shrubbery and where a perfectly safe fertilizer is required. It contains phosphoric acid and some nitrogen.

Granulated Peat Moss. For greenhouse, garden and home. Our peat moss is of the finest quality you can buy anywhere at any price. Its use contributes to the humus content of the soil, lightening heavy clay and binding sandy soils. It insulates soil against freezing and thawing in winter and conserves moisture in summer. Clean, odorless and economical to use.

Sheep Guano. An efficient fertilizer to use on lawns, in the garden, the perennial border, shrubbery beds, small fruit garden, flower beds, etc. It is safe and dependable. A natural plant food and not a chemical stimulant.

Nitrate of Soda. A fertilizer for all crops; quick in action and hastens the maturity of crops fully two weeks. It should not be applied until the plants are above the ground. Do not allow solution to touch foliage. Dissolve 1 oz. to 2 gals. or 1 lb. to 50 gallons.

Superphosphate (Acid or Rock Phosphate) is a water soluble combination of phosphoric acid and lime which is formed by the action of sulphuric acid on raw phosphate rock. It aids in plant nutrition and assists the plant to assimilate other ingredients. Superphosphate is an efficient fertilizer element for lettuce, truck crops, cereal crops, and alfalfa.

Hydrated Lime. The constant watering of lawns tends to sour the soil and eventually the lawn becomes foul with weeds which thrive in an acid soil. This condition may be improved by applying hydrated lime.

Muriate of Potash. This fertilizer is especially valuable for fruit trees and berries.

Do You Plant by the Moon?

For those of our customers who follow the time honored practice of planting by the moon, we have prepared this handy reference chart. It shows the day and the hour at which the moon enters each of its phases. For instance, on April 25th at 2:40 A.M. the moon enters the first quarter. It remain in this phase until May 5th at 9:19 P.M., when it becomes full.

	First Quar.		Full Moon		Last Quar.		New Moon
1950							
Jan.	11 2:31 A.M.	17 11:59 P.M.	25 8:39 P.M.	3 11:49 P.M.			
Feb.	9 10:32 A.M.	16 2:53 P.M.	24 5:25 A.M.	2 2:16 P.M.			
Mar.	10 6:38 P.M.	18 7:20 A.M.	26 12:09 P.M.	4 2:34 A.M.			
Apr.	9 3:42 A.M.	17 12:25 A.M.	25 2:40 A.M.	2 12:49 P.M.			
May	8 2:32 P.M.	16 4:54 P.M.	24 1:28 P.M.	1 9:19 P.M.			
June	7 3:35 A.M.	15 7:53 A.M.	22 9:12 P.M.	28 11:58 A.M.			
July	6 6:53 P.M.	14 9:05 P.M.	22 2:50 A.M.	28 8:17 P.M.			
Aug.	5 11:56 A.M.	13 8:48 A.M.	20 7:55 A.M.	27 6:51 A.M.			
Sept.	4 5:53 A.M.	11 7:29 P.M.	18 12:54 P.M.	25 8:21 P.M.			
Oct.	3 11:53 A.M.	11 5:33 A.M.	17 8:18 P.M.	26 12:46 P.M.			
Nov.	2 5:00 P.M.	9 3:25 P.M.	16 7:06 A.M.	24 7:14 A.M.			
Dec.	2 8:22 A.M.	8 1:28 A.M.	15 9:56 P.M.	24 2:23 A.M.			

Important Ordering Suggestions

Free Transportation on All Flowers and Vegetable Seeds in Packets, Ounces or ¼ Pounds

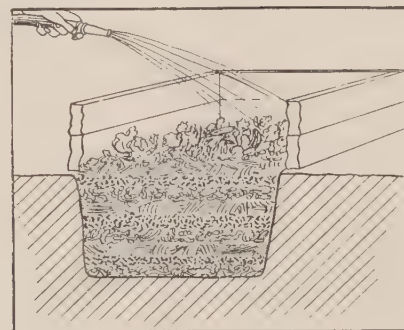
All seeds quoted in this catalog are shipped by Parcel Post, all transportation and packing charges are paid by us. C.O.D. and money order return fees are not considered as transportation charges and, therefore, must be paid for by the customer. Avoid them by sending remittance with order. Bulk seeds, such as Peas, Beans and Corn, in quantities, are shipped to your nearest express or freight office, transportation collect. If you wish them shipped by Parcel Post, please send necessary postage.

SHIPPING ORDERS. When goods are to be shipped by Freight or Express, give plain shipping directions; otherwise we use our best judgment in routing. Goods on which we pay transportation are shipped at our option.

SEND MONEY. Remittances should always accompany the order. Remittances may be made at our risk by any of the following methods (1st and best) **Post Office Order**; (2nd) **Bank Draft**; (3rd) **Express Company Money Order**; (4th) **Cash by Express** in amounts not less than \$50.00; (5th) **Registered Letters**.

NON-WARRANTY. We exercise the greatest care to have all of our seeds and bulbs of good quality and true to name. Once sold, however, their growing conditions are beyond our control. Therefore, we operate under the usual **Seedsmen's Non-Warranty**: We give no warranty, express or implied, as to the productiveness of any seeds or bulbs we sell, and will not be in any way responsible for the crop. Our liability in all instances is limited to the purchase price of the seed.

Don't Forget the Compost Pile



You have a rich source of indispensable humus right in your own garden. How to make use of it? The compost pile is the answer.

All of your lawn clippings, weeds, vegetable tops, potato peelings and any other vegetable matter can be thrown into a pit or bin. When a layer a foot or so thick has accumulated sprinkle a compost maker over the top and cover the whole with about 2 or 3 inches of soil. Repeat the whole process until your compost pile is three or four feet deep. Keep the pile moist to hasten the rotting.

In about 6 months the compost pile will be ready to use. Spread it on the garden as you would barnyard manure. Used with peat moss and commercial fertilizers compost is a really important aid to good gardening.



Vegetable Seeds

Long experience enables us to offer you this carefully chosen selection which we know will give you the best results in this area. Varieties suitable for freezing marked (Fz.).

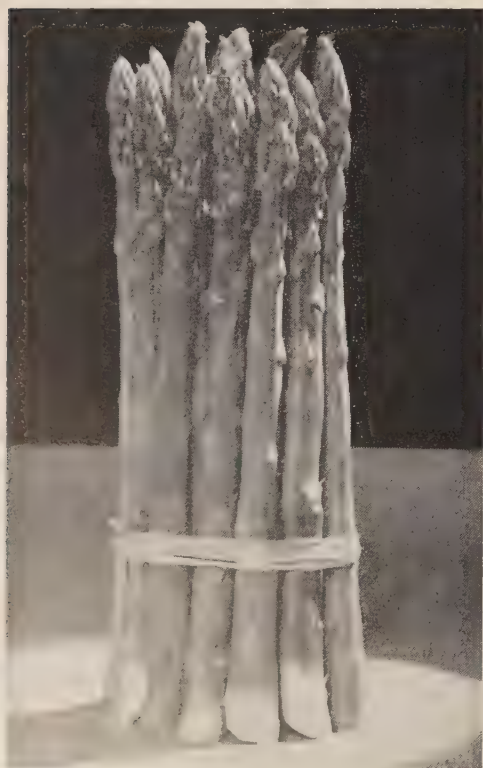
No matter how much work and care you put into your vegetable garden you can not expect good results unless you use reliable seed. We pride ourselves on the quality of our seeds and sell them with the confidence that you will find them the best.

ASPARAGUS

1 oz. to 100 ft., 4 lbs. per acre.

Soak seed 24 hours, sow in spring, 15 to 20 seeds to the foot. Cover 2 inches. Transplant to permanent beds the next spring.

Mary Washington. The most extensively grown variety. Large green spears with tight, purple-tinted tips, of fine quality. (Fz.) Pkt. 10c; oz. 25c.



ASPARAGUS

BEANS

Bush, 1 lb. to 150 ft., 50-60 lbs. per acre.
Pole, 1 lb. to 150 hills, 30-35 lbs. per acre.
Lima, 1 lb. to 150 ft., 30-50 lbs. per acre.

Bush, Green Pod

Prices: Pkt. 15c; ½ lb. 25c; 1 lb. 45c.

Dwarf Horticultural. Particularly desirable green shell and snap bean for home and market garden. Plant medium high, thrifty and productive. Pods dark green at snap stage (53 days).

Improved Stringless Green Pod. High quality for home and market garden. Plant large, thrifty, heavily productive. Pods medium green, 5½ inches long, almost ½ inch wide and equally thick. Very fleshy, strictly stringless, fine grained, tender. Seeds coffee brown. 53 days.

Tender Green (Improved Refugee). A bush bean of utmost value. The plants make a strong and vigorous growth. They are well branched and carry a great quantity of beautiful light green beans. The pods grow 6 to 7 inches long. They are round, extremely meaty, and absolutely stringless. 54 days. (Fz.)

Topcrop. New, All-America Selection. Illustrated and described on page. 3.

Bush, Wax Pod

Prices: Pkt. 15c; ½ lb. 30c; 1 lb. 50c.

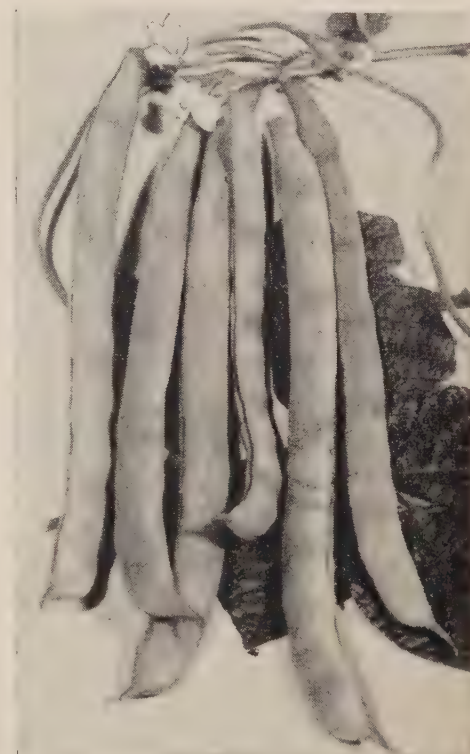
Average maturity 52 days from seed.

Black Wax, Pencil Pod. Very desirable for home and market garden and for truckers. Plants large and thrifty. Heavily productive over long period. Pods handsome bright yellow, 5½ to 6 inches long, ¾ inch thick, cylindrical; very fleshy, stringless, brittle, fine grained, and tender. Quality unexcelled.

Kidney Wax, Round Pod (Brittle Wax). Valuable for home garden and canning.

Plants are erect, medium large, prolific. Handsome pods of waxy light yellow, 5½ to 6 inches long, thick and round. Very fleshy, brittle, strictly stringless and without fibre. Seeds white with brownish-black eye.

Golden Wax, Top Notch. Blight resistant. A splendid home garden and canning variety. Plant small, productive. Pods very attractive; golden yellow; 4½ to 5 inches long, ½ inch wide, thick, oval; fleshy, brittle, stringless. Seeds white, splashed with violet, carmine and purple.



BEANS, KENTUCKY WONDER



BEANS, BUSH GOLDEN WAX POD

Pole Beans

Prices: Pkt. 15c; ½ lb. 30c; 1 lb. 50c.
Mature in 75-80 days.

Blue Lake or Improved White Crease-back. Splendid snap bean for home garden and early market. Good climber, heavily productive. Pods light green, 5½ inches long, ½ inch wide, almost as thick; nearly stringless, very fleshy, brittle, tender. Seeds white; excellent for baking.

Kentucky Wonder. The oldest favorite of all pole beans should be in every garden. The dark green pods are round and curved, measuring 9 to 10 inches; they are stringless when young. Seeds light brown.

Kentucky Wonder Wax. An early and hardy bean somewhat resembling the Kentucky Wonder except in color of pods which are light yellow and broader. If a wax podded bean is desired this is the one best variety to plant. Seed oval, flattened, somewhat shriveled, dark brown.

Oregon Giant. We highly recommend this variety to Northwest home gardeners. It keeps producing until killed by frost. Large, fleshy pods, 10 to 12 inches in length, stringless, light greenish yellow, splashed with red. A very tasty bean that requires very little care.



BEETS, DETROIT DARK RED

Potomac. Six inches long, slender and round, this stringless meaty bean is a good climber and heavy producer. The snap beans are excellent for home or market. (Fz.)

Lima Beans, Bush

Prices: Pkt. 15c; ½ lb. 35c; 1 lb. 60c.

Burpee's Improved Bush. Plants large, heavily productive. Pods large, 4½ to 5 inches long. Usually contains 4 large, thick beans. Dry beans large, flat, greenish white. Mature in 75 days.

Cangreen. All-American Selection. Honorable mention 1943, 68 days to maturity. In all other respects resembling the Henderson Bush Lima, Cangreen is notable for the green color of the fleshy part of the seed in the dry stage. Attractive for canning, either commercially or in the home. Yields a prolific crop.

Fordhook 242. Developed by the U. S. Department of Agriculture. Large, spreading plant with slightly curved pods containing 3-4 light green beans of excellent quality, good for canning and freezing. Good in high temperature (Fz).

Lima Beans, Pole

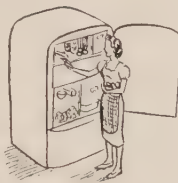
Prices: Pkt. 15c; ½ lb. 30c; 1 lb. 50c.

Oregon Pole Lima. Proven over many years to be well adapted to our cool Northwest climate. A strong, vigorous grower, bearing continuously until frost. Pods are at their best when yellow.

"Freeze Your Garden"

You can enjoy the goodness of your own garden fresh vegetables the year around by freezing them. No other method of preserving can give you more appetizing and flavorful vegetables for your table.

The letters (Fz) after certain descriptions indicate the best varieties to freeze.



BEETS

1 oz. to 100 ft., 4-6 lbs. per acre

Prefer a rich sandy loam but will produce in any well fertilized soil. Space rows 14 to 24 inches apart. All varieties: Pkt. 10c; ½ oz. 15c; 1 oz. 25c; 4 oz. 75c.

Detroit Dark Red. The standard of excellence in table beets for home and market garden, for shipping, and for canning. Tops uniform, small, slender, erect. Roots globe shaped; symmetrical, with small collar and small tap-root. Very dark blood red. Mature in 52 to 55 days.

Early Wonder. Very desirable for home and market gardens. Tops small. Root flattened globe shape and small collar and tap-root. Dark purplish red. Flesh deep purplish red zoned a lighter shade. Mature in 50 to 55 days.

Extra Early Flat Egyptian. Best for forcing and particularly valuable for early market. Tops small and upright. Roots flattened, with long slender tap-roots. Flesh dark purplish red zoned lighter. Ready in 50 days.



BROCCOLI

Mangel (or Stock Beet)

1 oz. to 100 ft., 6 to 10 lbs. per acre.

Valuable as stock feed. All varieties of Mangels: 1 oz. 20c; ¼ lb. 60c.

Danish Sludstrup. Very high yielder. Roots long, oval, orange colored; flesh white with faint yellow tinge.

Giant Half Sugar. This variety is one of the favorites among the dairymen and hog raisers. It is very sweet and nutritious, as it has a higher sugar content than the ordinary mangel.

True Sugar Beet. The most desirable beet for sugar manufacture. Valuable for stock feeding. Roots medium large, 12 to 15 inches long, 3½ to 4 inches at shoulder, tapered; white, with a tinge of gray; very rich in sugar. Good keeper.

BROCCOLI

½ oz. to 100 ft., 4 oz. per acre.

This is similar to cauliflower and is especially suited to Pacific Coast states. Pkt. 10c.

Italian Green Sprouting. This vigorous plant is entirely different from the white heading sorts. Cultivated like cabbage, it bears a succession of sprouting heads which, if kept cut, will be replaced by others for 8 to 10 weeks. Each sprout, about 5 inches long, ends in a small head of dark green buds. It is one of the most delicious green vegetables. (Fz.)

BRUSSELS SPROUTS

½ oz. to 100 ft., 4 oz. per acre.

Can be successfully grown wherever conditions are favorable for late cabbage and require the same method of culture. They mature best in the autumn after the weather becomes cool. Pkt. 10c.



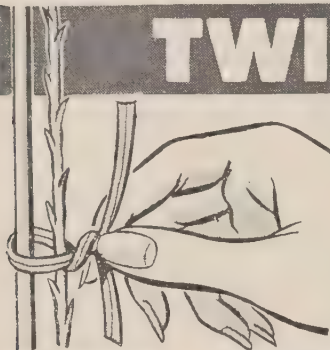
Dwarf Improved. Plants dwarf and compact, 20 inches tall. Very uniform; stem well covered with firm, round cabbage-like balls 1¼ to 1½ inches in diameter mature in succession. Pick as needed.

HOTKAPS



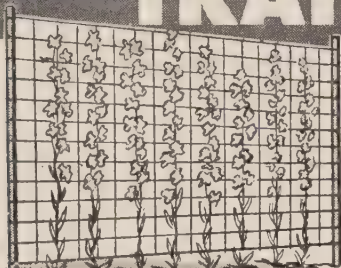
FROST CAN'T HARM PLANTS — Have vegetables 3 weeks earlier. Patented paper hothouses — completely protect plants from destructive Frosts, Storms, Insects. Ripen crops 3 weeks earlier; increase yield 18% to 51%; maintain perfect Mulch. **Big Garden Pkg. of 25—only 70c. Setter Free.**

TWIST-EMS



NEW HANDY PLANT TIE — A twist of the wrist and plant is tied! Strong, dark green "invisible" tapes with wire reinforcing. **TWIST-EMS** protect stems, permanently support annuals, perennials, vines, shrubs, vegetables. **Box of 250, 4-inch size, 35c. Box of 125, 8-inch size, 35c. Box of 125, 16-inch size, 65c.**

TRAIN-ETTS



NEW WEATHERIZED TRELLIS NETTING — Ideal support for Sweet Peas, Garden Peas, Pole Beans, Tomatoes, etc. Hung with ease in 5 minutes. Use instead of tedious string tying or wire supports that burn delicate tendrils in the hot sun. Lasts several seasons. **3 sizes: 60"x72", 65c; 60"x90", 85c; 60"x180", \$1.25.**

THE Hayes **HAN-D**

Revolutionary Hand Sprayer

1 quart capacity. For home, farm and garden use. Sprays all liquid insecticides and properly strained powders such as Bordeaux, Lime Sulphur and Lead Arsenate. Ideal for applying the new DDT in and around chicken houses, rabbit hutches, and dairy barns.

ONLY \$2.95



PROTECT your garden

WITH

SCARE-AWAY
THE MODERN SCARECROW

PAT. PENDING

SCARE-AWAY

PROTECTS
Newly Planted Seeds
Tender Young Sprouts
All Ripe Berries
Fruits, Vegetables
Etc.

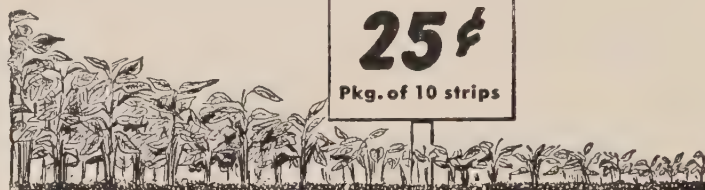
RIDS

Gardens, orchards and berry patches of birds and small wild animals. This unique new garden policeman is useful from planting time to harvest.

HERE IS HOW SCARE-AWAY WORKS

Scientifically designed 15" metallic strips (pat. pend.) drive out garden marauders with a frightening combination of crackling noise, flashing light and fluttering motion. Easy to hang from string or wire.

Scare-Away has been tested and approved by reliable authorities. Highly praised by gardeners all over the nation.



25¢

Pkg. of 10 strips

Arnold



GARDEN HOSE SPRAYER

Adjustable Nozzle

THE ARNOLD GARDEN HOSE SPRAYER is a device that attaches to the garden hose in place of the regular nozzle. It consists of a shut-off, chamber for cartridges, extension and adjustable nozzle that will spray from 3 to 25 feet.

Arnold Sprayer\$5.50
Cartridges35c each; 3 for \$1.00

DDT FOR CHEWING INSECTS

P-R FOR SUCKING INSECTS

FUNGUS SPRAY FOR PLANT DISEASES

RODENT DESTROYERS

0 RAT LUNCHES Rats dine then die when they eat **RAT LUNCHES!** The old reliable! Safe to use anywhere in the Home, Factory, Mill, Warehouse, Poultry House, etc. 30c & 60c size. Guaranteed effective. Kills rats only.

2 DEATH TO MICE Guaranteed to destroy all mice. More convenient than traps or other preparations. Unattractive to dogs, cats, or other pets but **SURE DEATH TO MICE!** 25c and 75c size.

3 DEATH TO GOPHERS Kills gophers, prairie dogs, squirrels, groundhogs and other rodents. Over 30 years of success. Consists of blend of foods which rodents seek in which poison is concealed. Rodents eat it then die! Big market among golf and country clubs, park and cemetery associations, fruit growers, etc. 25c, 50c and \$1.00 sizes.

4 DEATH TO MOLES Guaranteed to kill moles. Enjoys record of over 30 years success to users everywhere. Can you ask for better? 25c size.

RAT LUNCHES CO., 614 & MAIN CARROLL, IOWA



ORTHO RODENT DESTROYER—Kills gophers, squirrels, rats, mice, etc. A grain type bait with strychnine. 6 oz. 35c; 1 lb. 60c.

RAT NIP—A phosphorous type bait. Very effective. 35c Jar.

TAT FORMULA 83

Contains Antu, the new toxic agent discovered during the war.

Easy to use — Very effective.

Two sizes: 35c and \$1.00.





CABBAGE, EARLY JERSEY WAKEFIELD

CABBAGE

Sow early varieties under glass and transplant to open ground as early as possible. Sow late varieties in open in April and May. Keep the crop well watered and cultivated. Best in good, heavy soil with good drainage; light soils should be well fertilized. Shallow but frequent cultivation!

EARLY VARIETIES

1/2 oz. 35c; 1 oz. 60c.
Mature between 60-65 days.

Copenhagen Market. Distinctly and uniformly early. Splendid for early market and shipment; valuable as an early kraut variety. Plants small, compact, allowing very close planting. Stem short; heads uniformly round; firm; 6 to 7 inches in diameter. Weight, 3 1/2 to 4 lbs. Interior clear white and of excellent quality. Mature in 66 days.

Early Jersey Wakefield. Extremely early variety, very valuable for home and market garden as well as for shipment. Plants very small and compact, allowing close planting; stem short. Heads firm and conical; usually 7 inches long, 5 inches thick near base; weight, 2 to 2 1/4 lbs. Pkt. 10c.

Golden Acre. The earliest round-headed cabbage; especially valuable for early market and shipping. Plants very small and compact; stem short. Heads uniformly round; firm, commonly 6 inches in diameter and weigh 3 pounds. Pkt. 10c.



CABBAGE, DANISH BALL-HEAD

LATE VARIETIES

1/2 oz. 35c; 1 oz. 60c.
Mature in 90 to 100 days.

Danish Ball Head. This is the best late cabbage. The plants are medium sized with short stems. Heads large; flattened globe shape; become 8 to 9 inches across, 6 to 7 inches deep, and weigh 7 to 9 pounds. Very firm and solid; of excellent quality; keeps perfectly in storage until late spring. Pkt. 10c.

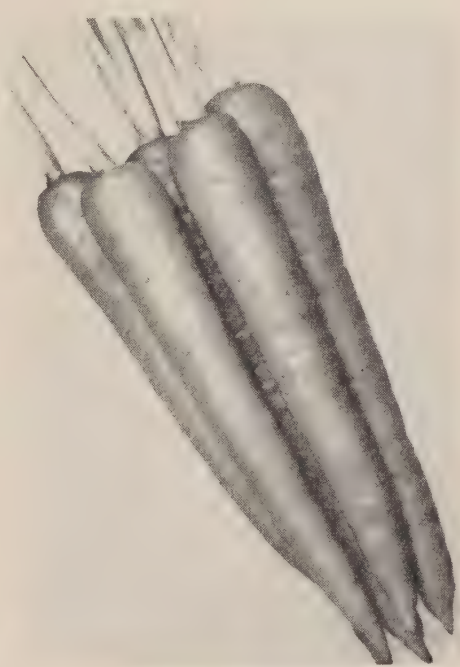
Late Flat Dutch. The best very large, late cabbage. Popular for home and market garden. A good keeper. Heads very large and flat, but deep; become 12 to 14 inches across, 7 inches deep, and weigh 12 to 14 lbs. or more; firm, good quality. Pkt. 10c.

Mammoth Red Rock. A sure cropper and used very extensively for pickling. The solid heads are borne on medium-length stems and are red throughout. Perfectly round, solid as a rock, and quite large. Often weighing 6 to 8 pounds each. The latest of the red cabbages. Pkt. 10c.

Savoy. Enjoys great popularity on account of its tasty flavor which is more delicate than that of ordinary cabbage. The large round heads are somewhat flattened and very heavy. The deep green, crinkled outer leaves enclose the tender, light green heart. It matures late in the fall and will keep all winter. Pkt. 10c.

CHINESE CABBAGE

Wong Bok. This exceptionally fine vegetable is rapidly growing in public favor. It resembles the Cos lettuce, forming long heads of crisp leaves. Very mild and pleasant flavored. Serve as a salad or cooked. Pkt. 10c.



CARROT, IMPERATOR

CARROTS

1/2 oz. to 100 ft., 3 to 4 lbs. per acre.

Sow from April to July. Prefer a light, sandy soil. Pkt. 10c; 1 oz. 35c; 1/4 lb. 75c.

Chantenay, Oregon. Flesh is a deep golden orange color, always smooth and fine in texture, very tender. Excellent bunching variety and preferred by market growers. Medium early. 72 days.

Chantenay, Red Cored. A fine carrot. Flesh tender and sweet, reddish orange in color with the core indistinct and of about the same color as the surrounding flesh. Suitable for canning and table use. 72 days.

Danvers Half Long. Red core. The roots are a rich dark orange and because of its symmetrical shape—long and pointed—it makes an excellent bunching variety. It has proved over a period of years to be the most popular carrot, both with the grower and the shipper. Mature in about 75 days.

Improved Imperator. This carrot grows to a length of 7-8 inches with a shoulder diameter of 1 1/4 to 1 1/2 inches, making a smooth crown. Does not have undesirable side shoots; has a fine texture, and is good and sweet. Deep orange. In all respects it is very attractive for shipping purposes. 77 days.

Nantes Coreless. Excellent for forcing, as well as for home and market garden use. Tops very small. Roots bright orange, cylindrical, blunt tipped. Flesh reddish orange, crisp, tender and of very delicate flavor. Practically coreless. 68 days.

STOCK CARROTS

1 oz. 25c; 1/4 lb. 75c.

Orange Belgian. A very productive variety, with roots measuring 20 inches long. They are broad at the shoulder, and gradually taper to a fine point. The skin below the ground is a light orange, but above the soil surface it is green. Will yield heavily, particularly on good, deep soil.

White Belgian. A late variety, an excellent keeper and very productive. Principally grown as stock feed, since it will yield as much as 40 tons per acre. Roots are 7 to 8 inches long, 3 inches across at the top, tapered and pointed.

CAULIFLOWER

1/2 oz. to 100 ft., 4 oz. per acre.

Treat the same as cabbage but gather the tops of the leaves together loosely as soon as the heads begin to form. Pkt. 15c.

Early Snowball (52 days). The best for greenhouse forcing, early market, and shipping. Plants very dwarf. Heads snow white, deep, smooth and compact; about 6 inches across, weighing about 1 1/2 to 2 pounds. The standard of excellence in cauliflower. (Fz.)

Ideal (All-America Winner). This new cauliflower is described as being of highest quality and excellent taste; easily grown, being frost and heat resistant, and of high yield. Even in poor soil and under raw, changing weather conditions it has come through with good results when other varieties have failed. Sow in June or July, crop in autumn. Pkt. 25c.



CAULIFLOWER

Preparing Vegetables for Freezing

Fz indicates varieties suitable for freezing.

1. Use only the finest vegetables obtainable.
2. Prepare and freeze vegetables as quickly as possible to preserve the vitamins, texture and flavor.
3. Scald vegetables by placing in colander, strainer or similar container and immerse in rapidly boiling water. Use only small quantities so water will come to boil within half a minute after vegetables are added. Count only the time that the water is boiling. Drain quickly.
4. Cool by immersing immediately in cold water, preferably ice water. When vegetables are thoroughly cooled remove and drain.
5. Pack in suitable airtight containers such as waxed cardboard cartons, tempered glass jars or lacquered tin cans. Allow 1 to 1½ inches space for expansion in freezing.
6. Place in quick freeze immediately after packing.

Asparagus. Wash and cut into desired lengths, blanch 2 to 3 minutes.

Green Lima Beans. Shell and scald 1 to 1½ minutes.

Green Beans. Wash, stem and string. Scald whole beans 5 to 6 minutes, cut beans 2 to 3 minutes, French cut beans, 1 to 2 minutes.

Brussels Sprouts. Soak in salt brine or cold water 15 minutes. Scald 3 to 4 minutes.

Carrots. Wash and dice or slice. Small carrots may be left whole. Scald diced or sliced carrots 2 to 3 minutes, whole ones 3 to 5 minutes.

Corn on the Cob. Husk, trim and wash. Scald, a few ears at a time, for 1 to 2 minutes. Chill thoroughly in ice water, drain and wrap each ear in parchment paper or moisture proof locker paper. THAW before cooking.

Whole Kernel Corn. Husk, trim and wash. Scald on the cob 2 to 3 minutes. Cut from cob, pack dry and seal tightly.

Peas. Shell and immediately scald for 1 to 1½ minutes.

Spinach. Blanch 1 to 2 minutes, a small quantity at a time. Avoid cooking. Stir gently while in the boiling water to prevent sticking together.

Zucchini. Use young tender squash. Wash, remove blossom ends, slice in sections 1 inch thick, scald 1½ to 2 minutes.

Note: In each case in the above directions it is understood that scalding is to be followed by draining, chilling, packing and quick-freezing.

CELERIAC

¼ oz. to 100 ft., 4 oz. per acre.

Give the same culture as celery, but do not earth up. Pkt. 10c.

Large Smooth Prague. An improved variety of turnip-rooted celery producing large fibers of nearly globular shape and comparatively smooth surface.



CORN, MARCROSS

CELERY

¼ oz. to 100 ft., 4 oz. per acre.

Sow from February to May, transplanting in June to rows 3 feet apart. One ounce of seed will produce 5000 plants. Pkt. 10c.



CELERY, UTAH

Golden Utah. A light yellow-green selection of the original "Utah". Has superb quality and size of original, plus easier bleaching quality.

Utah Jumbo Winter. A remarkable late celery of the finest quality. Plant sturdy, compact and solid. Very free from strings. Light green in color; nutty flavor.

CORN

Sweet corn, 8 oz. to 100 ft., 10 to 14 lbs. per acre.

Plant in rich, warm soil, in hills, 2 to 3 feet apart, in rows 3 feet apart for early kinds and 4 feet apart for late sorts. Make first sowing about the middle of May and continue fortnightly up to about the middle of July. Corn should be planted in blocks of at least 4 rows.

Hybrid

Pkt. 15c; ½ lb. 30c; lb. 50c.
Listed in order of ripening.

Spancross (73 days). Very early. Well filled 6-inch ears of a medium yellow. Good quality. Plants grow 4 to 5 ft. tall.

Marcross (76 days). Stalks short but sturdy, highly resistant to bacterial wilt. Ears long, plump, abruptly tapered at tips; 10-14 rowed, with light cream-yellow medium-broad kernels of good quality.

Carmelcross (79 days). Large, 8-inch ears, well filled with medium-yellow kernels. Good flavor and quality. Early. Plants 4½ to 5 ft. high.

Golden Cross Bantam (88 days). Very uniform in habit of growth, size, and maturity. The ears measure 8 inches long and they are closely set with 14 rows of light yellow grains filled with delicious sweet pulp. Bears two ears per plant. (Fz.)

Silver Cross Bantam (80 to 86 days). Fancy Edible. This is the sweet corn that will amaze you—because it has all the tenderness, succulence, and real corn flavor of the best yellow corn. Yet it's white! How come? Well, that's one of the many wonders you come across in hybrid creations. This corn was derived from Golden Cross Bantam, which it resembles in many respects. But the stalks are taller and the ears are longer and larger. But, above all, you like its flavor. Many folks who thought they didn't like white sweet corn at all, now prefer Silver Cross Bantam to any other variety! First choice for quality canning and freezing!



CORN, GOLDEN BANTAM



CUCUMBER, IMPROVED LONG GREEN

CORN—Continued

Open — Pollinated — Yellow

Pkt. 15c; ½ lb. 20c; 1 lb. 35c.

Golden Bantam (79 days). 8-row. Slender ears 5½ to 6½ inches long have 8 rows of even, golden kernels of good flavor. Very sweet. Popular with the home gardener and for commercial purposes. (Fz.)

Golden Bantam Improved (81 days). A selection from the original strain of Golden Bantam. Larger ears, more rows of kernels, greater production. Golden yellow, deep, wide, tender kernels with a fine sweet flavor. Particularly desirable for canners and market gardeners. Remains in table condition a long time.

Gold Sunshine (80 days). One of the best extra early yellow varieties for home and market garden. Ears have strong husks and 8 to 12 beautiful tender rows to each ear. Kernels golden yellow, medium, sweet and of good flavor.

Golden Midget. Miniature Sweet Corn that has found a place in small city gardens. The stalks grow only 2½ to 3 feet, bearing several small golden ears about 4 to 5 inches long in cooking stages. The quality is very good, and it matures very early.

FIELD CORN

8 to 10 lbs. per acre.

Write for quantity prices.

Minnesota "13" Yellow Dent. An early maturing yellow dent corn that is a favorite in all the corn growing sections west of the Rockies. More of it is being grown than all other varieties combined. The stalks are of medium size, the ears 9 to 11 inches. 1 lb. 20c; 10 lbs. \$1.75.



EGGPLANT

Idahybrid 416. Grain type hybrid field corn. Develops few suckers, has a straight, stiff stalk, ideal for mechanical pickers. Ears dry quickly and husk out easily. Exceptionally good yielder. Often used for ensilage as it will grow 10 to 11 feet high. 1 lb. 35c; 10 lbs. \$2.85.

CUCUMBER

1 oz. to 100 ft., 3 to 4 lbs. per acre.
Mature in approximately 60 days.

Sow outdoor varieties early in spring, in hotbeds, and transplant to open ground when weather is suitable. For later crop, sow seed when weather becomes settled, in hills of 5 to 6 inches apart. They require a warm, rich soil, and should be watered liberally. Pkt. 10c; 1 oz. 25c; 4 oz. 75c; 1 lb. \$2.25.

Cubit. All-America Bronze Medal, 1944. Handsome, long, cylindrical fruits of dark green exterior, with crisp, white flesh and small seed area. Excellent for home and shipping.

Davis Perfect (68 days). A splendid dark green variety, excellent for slicing and a good shipper. Very dark green, white spined. The color is retained a long time when pickled. Tapered somewhat at both ends. Seeds few.

Improved Long Green (67 days). This is a great improvement over the old strain of Long Green. The fruits are unusually handsome, being of good form and of a deep green color which is retained a considerable time after picking. 9 to 10 in.

Lemon (65 days). Little cucumbers resembling lemons in both form and color and have a delicious and distinctive flavor. Fine for preserves or sweet pickles and considered superb as a salad. Prolific.

Chicago Pickling (56 days). A highly desirable pickling strain. Fruits weigh 1½ pounds; are dark green, symmetrical, with thick walls; full ended. 1 oz. 20c.

Straight 8 (66 days). An outstanding new variety producing symmetrical, cylindrical fruits about 8 inches long and 1½ inches in diameter. Fruits are well rounded at the ends and when ripe are deep green and free from objectionable striping or tipping. Ideal for home or market gardens.

EGGPLANT

¼ oz. to 100 ft., 5 to 6 oz. per acre.

Sow in mild heat, about the middle of March, and transplant on June 1, setting the plants 2½ feet apart. Pkt. 10c; oz. 65c.

Black Beauty (80 days). The fruits of this variety are large and symmetrical. Retains its glossy black-purple coloring for a long time. This lasting quality makes it distinctly popular.

ENDIVE

1 oz. to 100 ft., 4 to 5 lbs. per acre.

Sow about the middle of April, in rows 1½ feet apart, and thin out to about 9 inches apart. Pkt. 10c; oz. 25c; 4 oz. 75c.

Broad-leaved (Escarolle). Leaves long, broad, and succulent. Fine for winter salads and cooking.

Large Green Curled (Pink Ribbed). Outer leaves bright green, midribs tinged with rose. Center leaves blanch readily. Makes attractive salads. Vigorous and resistant.

GARLIC See Under Onions

KALE, Borecole

1 oz. to 100 ft., 4 to 5 lbs. per acre.

Culture same as late cabbage.

Pkt. 10c; 1 oz. 20c; ¼ lb. 60c.

Dwarf Green Curled Scotch (55 days). Plants have wide-spreading, finely curled blue green plume-like leaves. Relished as a vegetable green and useful as an ornament.

Tall Green Curled Scotch (60 days). Hardy plants with leaves deeply cut. Curled at the edges, light green in color; very tender and finely flavored after touched with frost.

Jersey or Thousand Headed. Called Chicken or Cow Kale. Vigorous branching plants with enormous cabbage-like leaves. Relished by poultry and livestock as winter greens. 1 oz. 20c; 4 oz. 45c.



KOHL RABI

KOHL RABI

½ oz. to 100 ft., 4 to 5 lbs. per acre.

The delicious flavor of this turnip-shaped bulb combines both cabbage and turnip. As early in spring as possible, sow the seed in light rich soil in rows 1½ feet apart. When plants are well established, thin to 6 inches apart in the row.

Early White Vienna (55 days). For forcing. The best table sort if used when the bulbs are 2 inches in diameter. It matures very early and produces medium sized light green bulbs with white flesh of excellent quality. Pkt. 10c; 1 oz. 50c.

**PRETTY AS A PICTURE
AND FRAMED BY...**

stikit wicket
REG. U.S. PAT. OFF.

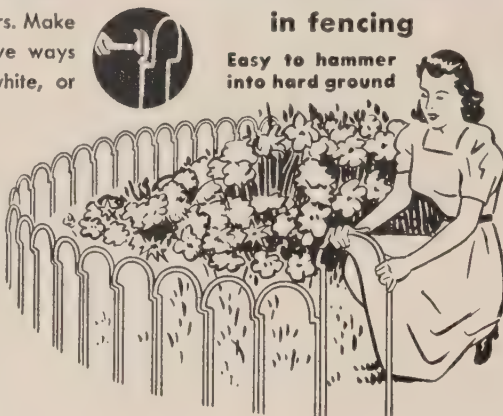
Frame the beauty of your flowers and lawn with Stikit Wicket, the modern idea for flower or lawn borders. Make your own designs in any of the many attractive ways possible. Available now in lovely, gleaming white, or brilliant green.

You combine charm with protection when you use Stikit Wicket. Each unit is 21" high, 12" wide. Made of 1/4" hardened steel, finished in oven-baked enamel for long-lasting attractiveness. Carton of two dozen makes 24 feet of border, enough for the average flower bed.

Now **\$1.89** THE DOZEN
(FORMERLY \$2.40)

the modern idea
in fencing

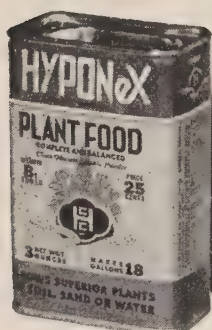
Easy to hammer
into hard ground



CYCLONE SEEDER

Can sow 50 acres in a 10-hour day—seeded evenly, thoroughly and easily. Use any seed that can be sown broadcast or with ground bone, ashes or fertilizer. Its distribution will make three bushels do the work of four.

THE SOWER THAT SATISFIES
Each, \$3.75; postpaid, \$4.00



HYPONEX
Grows BETTER
Plants QUICKER

A clean, odorless, soluble powder that makes complete plant food immediately available... Simply dissolve in water and apply. Produces bigger plants, larger vegetables, more flowers, better lawns and trees. Stimulates root growth on cuttings, reduces shock to transplants. For use in soil, sand or water (hydroponics). Economical... 1 oz. makes 6 gallons balanced liquid food. Non-burning.

1-oz. pkt. 10c; 3-oz. can 25c; 7-oz. can 50c, 1 lb. can \$1.00;
10-lb. drum \$8.00

SEL-TOX

a selective Crab Grass Killer (contain-PhenolMercuricAcetateSolubilized) is the latest step forward in the chemical control of Crab Grass... the most troublesome of lawn weeds. SEL-TOX not only kills but retards new Crab Grass growth. SEL-TOX can be used any time during the growing season—from "seeding" stage to "mature" growth without harming lawn grasses.

SEL-TOX is economical to use. The 16-oz. size makes 15 to 20 gallons and treats 1500 to 2000 sq. ft. Simply mix with water and apply with watering can or sprayer. (Complete directions on each bottle.) 8 oz. \$1.00; 16 oz. \$1.50; one quart \$2.50; half gallon \$4.50; one gallon \$8.00.



Before setting out rose bushes, soak bare-rooted plants in Rose-tone solution. Also water established plants with Rosetone. Plants take hold quickly and bear finer, earlier roses. Indispensable for the rose enthusiast.

1/2-ounce package 25c
3-ounce can \$1



SPOT
WEED KILLER
WORKS LIKE
MAGIC
It's Good-bye
Weed when
by this
Magic
touched
Wand.
Guaranteed

\$1 buys the Weed-Wand.
Additional \$1 for 12 pkts.
2, 4D fillers
(Weed-Wallop).



You will love it - properly distributed seed goes twice as far - saves thinning. For peas to petunias. Cork of 6 1/2" x 1" plastic tube pivots in palm - tap gently. **GUARANTEED.**

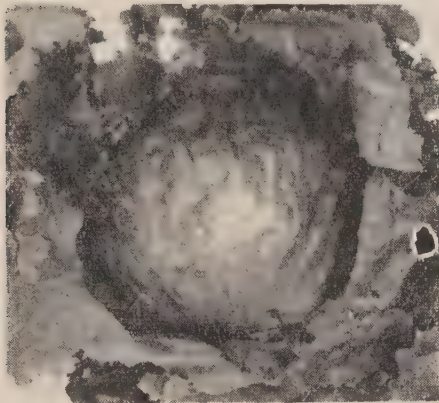
'GRO-QUICK' ELECTRIC SEED BED HEATER

SEED UP IN 30 HOURS
ROOT CUTTINGS IN 6 DAYS
CUT GERMINATION TIME BY 2/3
TRANSPLANT 2 WEEKS SOONER

Above user reports show what Gro-Quick soil cable will do. 6 cable sizes for 1 flat to large beds. New catalog, plans free. For hot-beds, cold frames, greenhouse benches, flats, cabinets. Uses house current.
J40A 40' cable & thermo. for 1 sash \$6.75
S80A for double sash bed (36 sq. ft.) \$9.00

LEEK

Large American Flag. An early popular sort. Stems 8-10 inches long, 1½ inches thick; white, and attractive. Leaves large, medium green, drooping backward. **Pkt. 10c; oz. \$1.00.**



LETTUCE, N. Y. TYPE

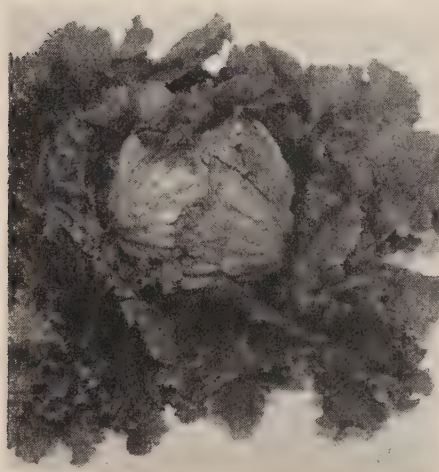
LETTUCE

½ oz. to 100 ft., 3 lbs. per acre.

Sow indoors in February and March, planting outdoors when weather is suitable.

Pkt. 10c; 1 oz. 40c; ¼ lb. \$1.20.

Great Lakes (83 days). A heading variety of the Imperial type developed by U. S. Department of Agriculture and Michigan Experiment station. Leaves large and well folded; ribs heavy. Shows considerable resistance to tipburn and ability to head under adverse conditions. **Pkt. 15c; 1 oz. 50c.**



LETTUCE, GREAT LAKES

Improved Hanson (82 days). A very hardy lettuce, excellent for a summer crop as it withstands heat. Forms a large, light green head which is very hard. An excellent variety for the home gardener for it is very sweet, crisp and tender.

Imperial No. 152 (matures in 83 days). Medium large, solid and attractive heads. Well adapted for early fall planting and dependable in heading. Resistant to brown blight.

New York No. 12. Small, extra early; crisp. Will withstand hot weather.

LEAF LETTUCE

Pkt. 10c; 1 oz. 30c; ¼ lb. 90c.

Black Seeded Simpson (45 days). A good non-heading or cutting lettuce with broad, light green, frilled outer leaves. Center leaves are almost white. Crisp leaves with a delicate flavor.

Grand Rapids. Very early. Hardy, disease resistant. The most widely used and best adapted variety for greenhouse forcing. Plants large, upright, compact, and handsome; bright, solid, light green, large leaves with broad, much frilled margin. Very tender and sweet when grown under glass.

Oak Leaf. Shaped like an oak leaf. Stands up well in hot weather and does not turn bitter. **Pkt. 15c; 1 oz. 50c.**



LETTUCE, OAK LEAF

Red Leaf Prize. An early non-fading sort, very desirable for home garden use. Plants of medium size, crisp and tender; color medium green with brownish-red edges on outer leaves.

MUSKMELON

1 oz. to 100 ft., 3 to 4 lbs. per acre.

Where summers are short sow in pots indoors, planting out in rich, well manured soil when danger of frost is over.

Pkt. 10c; 1 oz. 25c.

Cranshaw (96 days). A thick-fleshed melon with salmon color inside, golden green outside. Round at base, stem end pointed. Weighs 7 to 8 pounds.

Hale's Best Improved No. 36 (80 days). Fruits slightly oval, weigh 3 to 4 pounds. Flesh exceptionally thick, deep salmon in color, sweet, aromatic and of very fine quality. Uniform in shape.

Hale's Best, Jumbo Strain. An outstanding shipping variety. Fruits slightly oval, uniform. Flesh exceptionally thick, deep salmon in color; sweet, and of very fine quality. Has a delightful aroma. Ripe in 75-80 days.

Hearts of Gold (100 days). This popular medium sized melon follows the earlier varieties. It is fine to plant for succession as it ripens in about 100 days. The smooth orange salmon flesh is exceptionally thick and fine flavored.

Rocky Ford or Netted Gem (92 days). Fruits are small with rather large seed cavity, nearly round; no ribs, and heavily covered with hard gray netting. Flesh thick, green in color with gold tinge at the center. Juicy, spicy, and of good quality.



MUSKMELON, HALE'S BEST

WATERMELON

Pkt. 10c; oz. 20c.

Black-Seeded Ice Cream. The melon is almost round, with a thin rind of medium green. The inside flesh is pink and exceptionally sweet and fine flavored. This variety matures early and is a fine keeper.

Kleckly Sweet. A medium size melon, rind very green and flesh deep red. Delicious flavor. An excellent melon for either home garden or shipping. Weighs about 30 pounds.

Klondike Black Seeded. An early sort, a good shipper and popular in Western home gardens. Fruits oblong, slightly tapered, medium sized with slight ribs; rind medium hard. Flesh bright deep red, very sweet; unequaled eating quality.

MUSTARD

½ oz. to 100 ft., 4 lbs. per acre.

Make successive sowings in open from early spring to midsummer.

Pkt. 10c; 1 oz. 20c.

Southern Giant Curled. The leaves are large, light green with a tinge of yellow, and much crumpled and frilled at the edges. The plant is upright or slightly spreading in growth. This variety is valued in the South for its vigor, hardiness, and good quality.

Mustard Spinach or Tendergreen. Strictly speaking it is not a variety of mustard. A quick growing plant from the Orient. Leaves oblong, broad, fairly smooth with light green center ribs. Slow to seed, resistant to heat and drought. The flavor combines that of spinach and mustard.



MUSTARD, SOUTHERN CURLED

OKRA or GUMBO

2 oz. to 100 ft., 8 to 10 lbs. per acre.

Sow seed early in May, in rows 3 feet apart and 2 inches deep. As plants appear, thin out to about 1 foot apart. Pkt. 10c; 1 oz. 20c.

Improved Dwarf Green. Early. Short, thick pods.

Perkin's Mammoth Long Pod. Standard medium early sort for home, market garden and canning. Plants 4 to 5 feet tall; pods dark green, fleshy, tender; become 7 to 8 inches long, 1½ inches in diameter. Distinctly ribbed and tapered.

ONIONS

½ oz. to 100 ft., 3 to 4 lbs. per acre.

As early as soil can be worked in spring, sow the seeds thinly in drills 1 foot apart, and cover lightly, later thinning out to about 6 inches apart in the row. The soil must be well fertilized and be made very friable. In hot weather water frequently. Pkt. 10c; 1 oz. 65c.

Crystal Wax Bermuda. Medium size, pure, waxy white. One of mildest sorts grown.

White Portugal, or Silverskin. A good second early white flat onion. It should be planted any time from November 1st until April 1st. It is a good keeper and desired for shipping.



ONIONS, YELLOW GLOBE DANVERS

White Bunching or Pickling. Excellent and one of the best for green onions. Crisp and mild, attaining a good size before bulbs form.

White Sweet Spanish (112 days). A very large onion with pure white flesh, similar to the Yellow Sweet Spanish. A good keeper. Globular with small neck.

Utah Sweet Spanish. A large, globe shaped brown onion, weighing 1 to 3 pounds. Small tops. Flesh mild and sweet. Good for slicing. Most popular marketing onion.

Yellow Globe Danvers. An outstanding variety. Dependable, medium late, hardy, and excellent keeper; used for shipping and storage. Bulbs medium size, spherical, clear yellow, firm and solid with tough, clinging skins. Flesh white.

ONION SETS

Sets are northern grown, hardy, carefully cleaned, graded and packed. Produced for western conditions. Plant onion sets deep for green onions and shallow for dry onions. 1 lb. to 50 ft.

GARLIC SETS

(In about 110 days.) Garlic is grown by planting the small bulbs in rows, 4 inches apart in the row. Cover the bulbs with one inch of soil. When the tops turn yellow, lift the bulbs and dry in the sun. To keep for the winter, hang in a dry basement.



PEAS, GRADUS

PARSLEY

½ oz. to 100 ft., 3 to 4 lbs. per acre.

Grows best in rich, mellow soil and should be sown as early as possible in spring. Pkt. 10c; 1 oz. 20c.

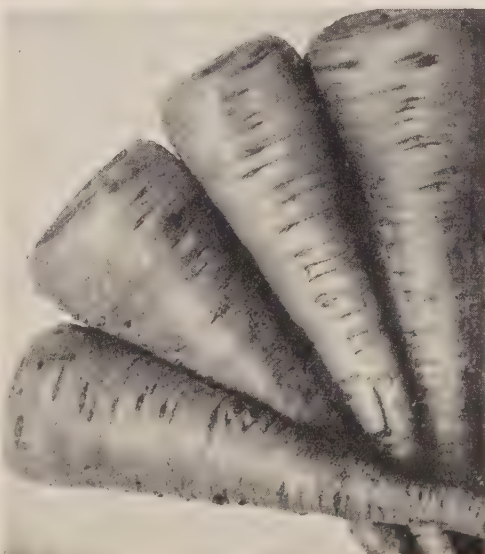
Extra Triple Curled (Moss Curled). This vigorous, compact grower is one of the most popular varieties because of its deep green color and tightly curled leaves that look like moss. It is unusually decorative.

PARSNIP

1 oz. to 100 ft., 3 to 4 lbs. per acre.

Sow in deeply worked, manured soil. Pkt. 10c; 1 oz. 25c.

Roots about 12 inches long with a well proportioned shoulder uniformly tapered to tip. Very tender and good flavor.



PARSNIPS

PEAS

1½ lbs. to 100 ft., 90 to 180 lbs. per acre.

Prices: Pkt. 15c; ½ lb. 20c; 1 lb. 35c.

FIRST EARLY VARIETIES

Alaska (55 days). This variety is extremely early. The round pods, 2½ inches long, contain 5 to 8 peas which are ready for use in about 55 days. The peas are small, round, and tender. The vines are 2½ to 3 feet tall.

Blue Bantam (62 days). The finest home garden variety for local conditions. Pods 4½ inches long, containing 7 to 8 large, succulent peas. Plant dark green, about 18 inches tall with heavy stems. (Fz.)

Laxton's Progress (60 days). A little earlier than other dwarf, large podded peas, this variety is generally considered the best of its class. The blue-green pods are often more than 4 inches long and contain 8 dark green peas of finest quality. The seeds are large, wrinkled, green and cream. (Fz.)

Little Marvel (64 days). Outstanding among dwarf peas for the exceptional quality and yield. Valuable for home garden and early market. Vines dark green, 18 inches tall, stocky, blunt, plump, well filled with 7 to 8 tender peas.

MAIN CROP

Mature to pick in about 75 days.

Tall Telephone or Alderman. A handsome, large podded variety. Unexcelled for home gardens, for local markets and for shipping. Bears immense crops. Wilt resistant. Pods single, very broad, plump, straight, dark green, pointed, contain 8 to 10 peas of highest quality. (Fz.)

Dwarf Telephone. Only about 2 feet tall, otherwise resembling Alderman. The pods are well filled with peas of the same good quality. It is an excellent variety to follow the early peas in the home garden. Seeds large, green, wrinkled.

Thomas Laxton (62 days). Excellent all-purpose variety. Plant deep green and medium heavy. The single, deep green plump pods contain 7-8 large, tender peas of high quality. Seeds of medium size, cream and green.

PEPPER

¼ oz. to 100 ft., 1 to 2 lbs. per acre.

Culture, soil and temperature requirements are about the same as for eggplant. A moderate dressing of Guano, poultry manure, or complete commercial fertilizer, hoed into the soil after the plants are 6 to 8 inches tall, will be very beneficial. Pkt. 10c; 1 oz. 75c.

Californai Wonder. Thickness of flesh alone, which is often ¾ of an inch, places this sweet pepper above all others. It is crisp and juicy, too, without a trace of pungency. Vigorous growing plants bear a heavy yield of blocky fruits that become as much as 5 inches long and 4 inches wide.

Long Red Cayenne. This well known, medium early pepper is especially good for drying purposes. The fruit is 4 inches long and 1 inch thick, twisted and pointed. It is deep green when young and bright red when ripe. The flesh is strong and pungent.

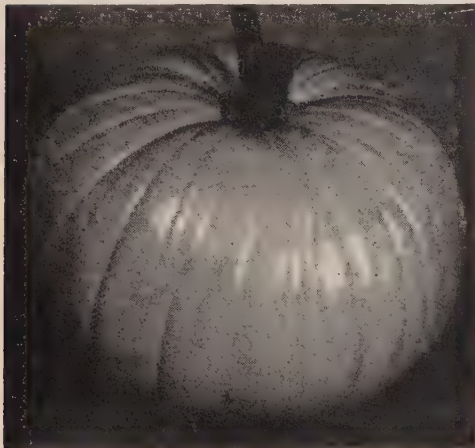
Perfection Pimento. A splendid canning variety, adapted to home and market garden culture. Plants large, erect, prolific. Fruits heart shaped, very smooth; flesh exceptionally thick, sweet and mild.

PUMPKIN

4 oz. to 100 ft., 3 to 4 lbs. per acre.

Pumpkins are typically American, and pumpkin pie is one of our truly American dishes. They are less sensitive to unfavorable conditions of soil and weather than melons or cucumbers, but they are cultivated in about the same way. Pkt. 10c; 1 oz. 25c.

Kentucky Field or Dickenson. Fruits very large, flattened, furrowed. Skin creamy buff; flesh extremely thick, deep salmon-yellow and of good quality. Dependably early and heavily productive. Good for canning. Squash bug resistant.



PUMPKIN, LARGE YELLOW

Large Yellow or Connecticut Field. This sort is grown largely in the corn field for stock, but the flesh is moderately fine grained, highly flavored, and very good for pies. The fruits weigh about 20 pounds and are a deep orange yellow.

Sugar or New England Pie. The earliest and best variety for pies. Fruits commonly 6 inches long and 8 to 9 inches in diameter; flattened, furrowed. Skin smooth, of a rich, reddish-orange color; rind hard. Flesh is thick and orange-yellow.

Winter Luxury. This variety is very popular for the home garden. The fruit matures in 75 to 80 days, weighs 8½ pounds, and is nearly round. The skin is light yellow with a russet tinge and finely netted; the flesh is rich, creamy yellow, thick, sweet, and finely flavored.



PEPPER, CALIFORNIA WONDER

RADISH

1 oz. to 100 ft., 10 to 12 lbs. per acre.

For an early crop, sow in hotbed in January, February and March. As soon as ground is fit to be worked, sow seed in the open, in rows 1 foot apart. Pkt. 10c; 1 oz. 20c; 4 oz. 60c.

Comet. An early radish with a rounded root, bright scarlet skin and tender white flesh which remains crisp and solid for a long time. Ideal for home and market.

Crimson Giant. A favorite with home gardeners. Large, globular root, 1 to 1½ inches in diameter, crimson, flesh firm.

Early Scarlet Globe. The earliest of all forcing radishes grown for market. Globular, uniform size, bright scarlet, white flesh, crisp and tender.



RADISH

French Breakfast. A splendid variety for home use; oblong, bright scarlet, white tip. Grows about 1½ inches long and ⅝ inch thick.

Long White Icicle. Long slender roots which remain tender and crisp until mature. The small top permits close planting. Early.

Sparkler (25 days). An early variety of a superior strain of the old Scarlet Turnip white tipped. 1¼ inch in diameter with bright scarlet top, a clear white base and small slender roots, this radish is excellent for the home garden or growing for market.

WINTER VARIETIES

Black Spanish Long or Round. A hardy, large, rather pungent variety for winter use. Keeps unusually well; is 8 to 9 inches long and 2 inches thick, slightly tapered. The skin is black and the flesh white and crisp. Round, about 4 inches in diameter.

RUTABAGA

1 oz. to 100 ft., 2 to 4 lbs. per acre.

The culture is the same as for turnip, but if anything, less exacting in care. Pkt. 10c; 1 oz. 20c; ¼ lb. 60c.

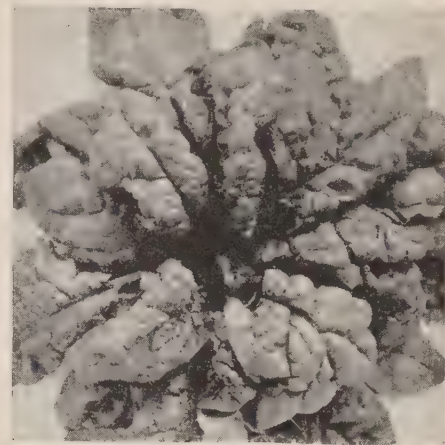
Purple Top. Medium top and very small neck. Roots are large, flattened globe in shape, yellow with purple top. Flesh is yellow, firm and of excellent quality.

SALSIFY, Vegetable Oyster

1½ oz. to 100 ft., 7 to 8 lbs. per acre.

Sow in deeply worked, well manured soil avoiding coarse and fresh manure. Pkt. 10c; 1 oz. 50c.

Mammoth Sandwich Island. Large and strong growing with long, smooth, white, tapering roots. Less likely to branch than those of other sorts.



SPINACH

SPINACH

1½ oz. to 100 feet, 10 to 20 lbs. per acre.

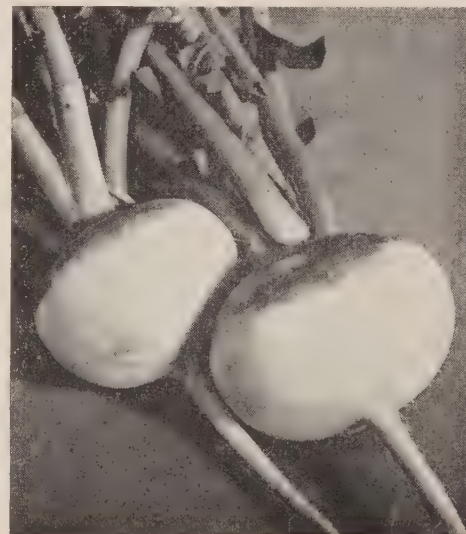
Sow early in the open.

Pkt. 10c; 1 oz. 20c.

Bloodsdales Improved Thick Leaf. The seed of this thick leaved variety produces the largest spinach. Growth is rapid and the leaves remain in good condition a long time. The medium green leaves are large, rounded, slightly crumpled, succulent, and tender. (Fz.)

Nobel, or Giant Thick Leaved (All-American). Of rapid growth. The leaves are the largest of any type and keep well after picking; medium-green, rounded, slightly crumpled, succulent and tender. Excellent for the home garden.

New Zealand. Not true spinach though similar when cooked. Thrives in hot, dry weather. The large, spreading plants have small, thick, pointed, deep green leaves, which can be picked repeatedly throughout the season.



RUTABAGA

SQUASH

Vining, 1 oz. to 100 feet, 4 lbs. per acre.
Bush, 1 oz. to 100 ft., 4 to 6 lbs. per acre.

Seeds should be planted about the middle of May, in hills 4 feet apart for bush varieties, and 10 feet apart for the running sorts. Put 5 to 8 seeds in each hill; afterwards thin out, leaving 3 or 4 of the best plants. Pkt. 10c; 1 oz. 25c; 4 oz. 75c; 1 lb. \$2.00.

Banana. A late trailing sort, cylindrical and pointed at blossom end. A fine squash for pies. Free from fiber or stringless. Flesh thick, deep yellow, dry and of a sweet flavor. Has slate-grey rind.

Early Prolific Straightneck. The peak of perfection in a summer squash. Fruits straight and smooth, of a delicate creamy color. Vines produce abundantly. 50 days.



SQUASH, WHITE BUSH SCALLOP

Early Summer Crookneck. Very early, 60 to 65 days. The bushy plant is very productive. Fruits attractive, weighing about 2 pounds. The skin is distinctly warted and bears a bright yellow color, while the flesh is pale cream, firm, and tender. A very good sort for home planting.

Improved Hubbard. Large and of warty Hubbard type. Shell dark green, hard, moderately warted. Flesh light orange, very dry and richly flavored. One of the best winter squashes.

Table Queen or Danish. Small, dark green, acorn shape. Flesh deep yellow, dry, richly flavored. Medium early. A good keeper. Easy to grow. Delicious when served baked whole. Before serving cut open and remove seeds.

Umatilla Marblehead. Thick meated squash. Large, slate colored variety. Yields heavy.



SQUASH, TABLE QUEEN

Troubled by Squash Bugs?

USE

SABADILLA DUST

and your troubles will be over!

White Bush Scallop. A popular variety bearing profusely. Small, rather flat, white squashes with a distinct scalloped edge. Is very early and has a fine flavor.

Zucchini or Italian. The favorite Italian squash. It should be eaten when quite young, 4 to 6 inches long. It is a delicious summer variety; very prolific, a few hills will suffice to keep the family well supplied the entire summer. (Fz.)



CHARD, RHUBARB

TOMATOES

1/8 oz. to 100 ft., 2 oz. per acre.

In February or March sow seeds lightly in rows in greenhouse, hotbed, or window box, and when plants have reached a height of 3 inches, transplant in hotbeds. About June 1, set out in open ground, 4 feet apart, giving plenty of well rotted manure to each plant. Water freely during hot weather. To obtain the best results, trellises or stakes should be used. Pkt. 10c; 1 oz. 70c; 4 oz. \$2.00.

Bonny Best. One of the very best early varieties (75 days) for table and canning. Vine medium, not very hardy. Fruits medium sized, apple shaped, smooth; solid, bright scarlet color, of excellent quality.

Earliana Improved (65 days). One of the earliest scarlet fruited varieties. Medium size, almost seedless and solid. Vine open and spreading. A heavy bearer. Succeeds everywhere.

Firesteel. The fruits are very large, dark crimson-red, globe shaped. Vines are medium, vigorous and fairly open. Good for juicing or slicing. Pkt. 10c; oz. 50c; 1/4 lb. \$1.75; 1 lb. \$6.50.

John Baer (70 days). A few days earlier than Bonny Best, which it resembles. For local market and canning. Pkt. 10c; oz. 50c; 1/4 lb. \$1.75; 1 lb. \$6.50.

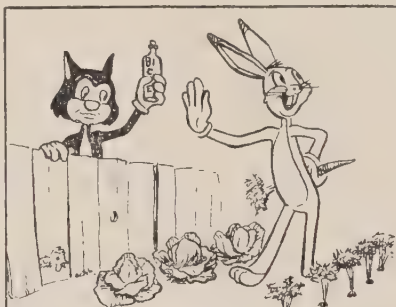
Jubilee (72 days). Tomato of real merit; it is different from any other tomato of its class. Fruits are bright orange-yellow, globular and weigh about six ounces.

Marglobe (73 days). Excellent home garden variety and particularly valuable for shipping. Plants thrifty and heavily productive with a long bearing period. Fruits uniform deep scarlet; large; uniformly globe shaped; smooth, solid, and of distinct quality.

Pritchard (Scarlet Topper) (70 days). Wilt resistant and self-topping or self-pruning. Mid-season to late; prolific. Fruits globe-shaped, deep scarlet, smooth and solid. A good home and market variety and very popular for shipping.

Wasatch Beauty. A compact, heavy bearing plant. The fruit is round, firm and smooth, of a fine red color and borne in clusters of three to six good sized tomatoes. Especially good shipping and canning variety.

Grow Your Own Vitamins



Garden fresh vegetables are the richest, surest source of health-giving, health-preserving vitamins. Insure your family's health by raising these easy-to-grow vegetables.

Beans: Vitamins A, B, C, G.

Beets: Vitamins C, G; **greens:** Vitamins A, G.

Carrots: Vitamins A, B, C, G.

Corn: Vitamins A, B, C, G.

Cucumbers: Vitamins A, B, C.

Lettuce: Vitamins A, B, C, G, E.

Muskmelon: Vitamin C.

Onions: Vitamins B, C, G.

Parsley: Vitamin C.

Squash: Vitamins A, B.

Tomatoes: Vitamins A, B, C.

Turnips: Vitamin C; **greens:** Vitamins A, B, C, G.

SWISS CHARD

1 oz. to 100 ft., 6 to 10 lbs. per acre.

The tops are used like spinach. Culture like beets. Thin to 8 inches.

Pkt. 10c; 1 oz. 25c.

Lucullus, Dark Green. The fleshy crumpled leaves of this variety make very choice greens. Plant erect; stalks rounded and finely ribbed. Foliage a rich deep green. (Fz.)

Rhubard Chard. A Swiss Chard that looks like Rhubarb. The leaf stalks are bright but delicate, translucent crimson; the rich color extends out through the veins into the dark green, heavily crumpled leaves. Different, tasty, delicious flavor. Easily grown, thrives everywhere.

THE GUN THAT MAKES LAWN AND GARDEN SPRAYING FUN! **INSECT-O-GUN**

SPRAYS

- WEED KILLERS
- INSECTICIDES
- FUNGICIDES

NO PUMPING
NO HEAVY TANK TO CARRY
NO CLEANING PROBLEM

—JUST FILL JAR
—COUPLE TO GARDEN HOSE
—GARDEN HOSE DOES THE WORK

ADJUSTABLE SPRAY — Insect-O-Gun's exclusive patented trigger controlled Mixing Pump allows you to adjust its deadly mist to gently spray the tenderest plant or power spray the hardest tree. Correct spray angle for full under-leaf coverage gets all the bugs.

FULLY GUARANTEED . . . COMPLETE INSTRUCTIONS ON CARTON
3-GALLON SIZE \$5.95



BUGS and BLIGHTS WON'T WAIT!

So why should you? Why let your roses be ravaged by rose chafer, aphids, red spiders, or ruined by black spot, powdery mildew, leaf spot? **PESTMASTER ROSE TREATMENT**—no more messy mixing, as it's all in one package ready to stir in water for spraying—definitely kills these pests, controls these fungus diseases. 1 lb. makes sufficient for 24-40 plants—a cost of about 6c for the entire season.



1-lb. can—
\$1.75

1/2-lb. can—
\$1.00

**Order
NOW!**

New Improved CERESAN



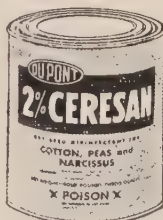
For wheat, oats, barley, rye, sorghums, millets, and flax, to control certain smuts and some other seed-borne diseases. Usually reduces seed decay and seedling damping-off of **cotton, flax, peas** and **sugar beets**, surface seed-borne anthracnose and angular leaf-spot of **cotton**. Use 1/2 oz. per bu.

4 oz. 45c; 1 lb. \$1.00; 4 lbs. \$3.40
40 lbs. \$28.75; 100 lbs. \$69.00

2% CERESAN

For **cotton, peas** and **narcissus**. Generally prevents seed decay and reduces damping-off, surface seed-borne angular leaf-spot and anthracnose of **cotton**. For **peas**, generally checks certain root-rot diseases. Also reduces basal-rot of **narcissus**. Use 3 oz. per bu.

1 1/2 lbs. \$1.25
25 lbs. \$16.09; 100 lbs. \$57.75



CERESAN M



For wheat, oats, barley, rye, sorghums, cotton, sugar beets, flax and peas. Control certain smuts and some other seed-borne diseases on small grains, usually reduces seed decay and seedling damping-off of **cotton, flax, peas** and **sugar beets**, and surface seed-borne anthracnose and angular leaf-spot of **cotton**. Recommended as a dust on all seeds mentioned or as a slurry on **wheat, oats, barley, rye, flax, sorghums**. Use about 1/2 oz. per bu.

14 oz. \$1.00; 3 lbs. \$2.85; 40 lbs. \$28.75; 100 lbs. \$69.00

SEMESAN

For vegetable and flower seeds and bulbs. Generally preserves seeds against rotting in cold, wet soils; controls damping-off or seedling blight and certain other seed-borne diseases. Helps promote increased germination, sturdier growth, larger yields, better grade produce. Use about 2 oz. per 100 lbs.

1/3 oz. 20c; 2 oz. 60c.
12 oz. \$2.40; 4 lbs. \$11.00
25 lbs. \$58.28



SEMESAN BEL

For both **Irish** and **Sweet** potatoes. On **Irish** potatoes, it is valuable for reducing surface seed-borne Rhizoctonia and scab. Protecting against seed decay on **sweet potatoes**; for treatment of seed and sprouts to control stem-rot, black-rot, scurf, soil-stain or rust. Use 1 oz. to 5 bu.

2 oz. 50c; 1 lb. \$2.50
4 lbs. \$6.33; 40 lbs. \$59.00



SPECIAL SEMESAN

For **Lawns, golf courses**, and other **fine turfs**. A fungicide used especially to prevent or control large Brown Patch and Dollar Spot. Apply as a liquid. Use 1 lb to 6,000 sq. ft.

1 lb. \$2.00; 4 lbs. \$6.92
25 lbs. \$39.96



TOMATOES—Continued

Scarlet Dawn (70 days). Fruits medium large, globular, smooth, free from flat side. Attractive bright scarlet color; uniform. Plant of medium growth, fairly open, early and prolific.

Stokesdale (73 days). Produces heavy crops. Almost free of stem-end crack. Slightly earlier and larger than Marglobe.

Victor. The highly publicized new tomato introduced by the Michigan State College. Fruits are about 3 inches in diameter, globe-shaped and ripen to a deep scarlet. Early.

Yellow Pear (73 days). Enormously productive, fine for salads or marmalade. Sweet and delicious. Small, yellow pear-shaped fruits of exceedingly mild and pleasing flavor. Pkt. 10c; 1 oz. \$1.00.

Red Plum (73 days). Oval plum-shaped fruits, 2 inches long. A clear red. Used for preserves. Pkt. 10c; 1 oz. \$1.00.

Ground Cherry or Husk Tomato. Fruits small, yellow, enclosed in loose paper husks. Very much prized for preserving. Pkt. 10c; 1 oz. \$1.00.



TOMATO, RUTGERS 86

TURNIP

1 oz. to 100 ft., 2 to 3 lbs. per acre.

For the main crop, sow in open ground from May to July; for winter use, during July and August. Set out in rows 1½ feet apart, allowing a space of 6 inches between the plants. Pkt. 10c; 1 oz. 25c; ¼ lb. 75c.

Golden Ball or Orange Jelly. A splendid variety for table use; of excellent flavor. Tops small, cut leaved. Roots globular, commonly 4 inches in diameter. Skin smooth, orange-yellow; flesh yellow, firm, fine grained and of good quality. Rapid grower. Plant during cooler months only. Table size in 60 days.

Purple Top Strap Leaf. A medium early, very productive variety. Tops medium small, upright, strap-leaved. Roots flat, purple red at the top, white below; flesh white, fine grained and tender.

Purple Top White Globe. This variety may be grown to quite a large size without developing signs of coarseness. It is of spherical shape with white skin, the upper one-third being colored reddish purple. Flesh pure white, firm, fine grained and of superior flavor. Good keeper. Fine for table use and stock feeding. Table size in 55 days, mature in 70 days.



TURNIP, PURPLE TOP

Purple Top Yellow Aberdeen. Full size in about 80 days. Of high quality. One of the best keepers. Globular or slightly flattened, usually about 5 inches in diameter, smooth, upper part purplish-red, lower part pale yellow as is the crisp, firm, sweet and tender flesh.

Snowball. A desirable sort for home use and early markets. Tops small and erect. Roots medium sized, round, white throughout, sweet, crisp and tender. Table size in 40 days.

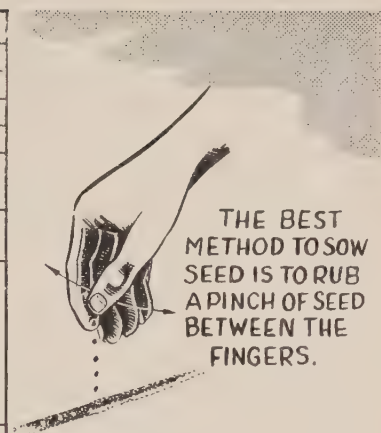
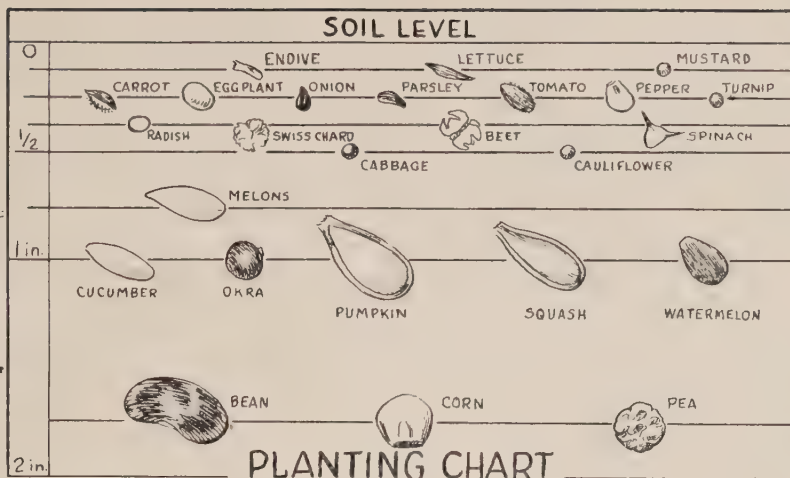
Ever Try a Cover Crop?

Some portions of your vegetable garden will probably be unused during part of the year. It's a good idea to sow a quick growing cover-crop such as a combination of winter oats and vetch, or winter oats and rye, in these idle spaces. When planting time arrives turn your cover crop under to obtain the benefits of the humus and plant food stored in the green plants. If you have never tried cover cropping you'll be surprised at the results. Even stiff clay soils are noticeably improved by the use of a cover crop.

QUANTITY OF SEED AND SPACING FOR HOME AND MARKET GARDENS

VEGETABLE	Seed Required for 50 ft. of row	Seed Required to sow an acre	Distance between rows inches	Distance apart in row inches	Depth of planting inches	VEGETABLE	Seed Required for 50 ft. of row	Seed Required to sow an acre	Distance between rows inches	Distance apart in row inches	Depth of planting inches
Artichoke, Globe	¼ oz.	6 to 8 oz.	40 to 48	18 to 24	1	Kohl Rabi	¼ oz.	4 to 5 lbs.	14 to 24	4 to 6	½
Asparagus	½ oz.	4 lbs.	14 to 24	3 to 6	1	Leek	¼ oz.	4 lbs.	14 to 36	2 to 3	¾
Beans, Bush	½ lb.	50 to 60 lbs.	24 to 30	2 to 3	1½ to 2	Lettuce	¼ oz.	3 lbs.	12 to 18	4 to 12	¼
Beans, Lima	½ lb.	30 to 50 lbs.	24 to 36	3 to 6	1½ to 2	Melon, Musk	½ oz.	3 to 4 lbs.	70 to 80	30 to 60	¾
Beans, Pole	½ lb.	30 to 35 lbs.	36 to 48	6 to 8	1½ to 2	Melon, Water	½ oz.	3 to 4 lbs.	72 to 96	72 to 96	¾
Beet	½ oz.	8 to 14 lbs.	14 to 24	3 to 4	½ to 1	Mustard	¼ oz.	4 lbs.	14 to 24	6 to 9	½
Beet, Mangel & Sugar	½ oz.	6 to 10 lbs.	18 to 24	6 to 9	½ to 1	Okra	1 oz.	8 to 10 lbs.	24 to 40	18 to 24	1
Swiss Chard	½ oz.	6 to 10 lbs.	18 to 24	10 to 12	1	Onion	¼ oz.	3 to 4 lbs.	18 to 24	3 to 4	¾
Broccoli	¼ oz.	4 oz.	20 to 36	16 to 22	½ to 1	Onion (for sets)	¼ oz.	60 to 85 lbs.	12 to 14	Not thin'd	¾
Brussels Sprouts	¼ oz.	4 oz.	20 to 36	16 to 22	½ to ¾	Parsnip	½ oz.	3 to 4 lbs.	18 to 24	3 to 4	½
Cabbage	¼ oz.	4 oz.	18 to 36	14 to 24	½	Parsley	¼ oz.	3 to 4 lbs.	12 to 20	6 to 8	½
Cardoon	½ oz.	5 oz.	20 to 32	20 to 30	½ to 1	Peas	¾ lb.	90 to 180 lbs.	24 to 36	1 to 2	1 to 2
Carrot	¼ oz.	3 to 4 lbs.	16 to 24	1 to 3	½	Pepper	½ oz.	1 to 2 lbs.	20 to 30	18 to 29	½
Cauliflower	¼ oz.	4 oz.	24 to 30	20 to 24	¾	Potatoes	8 lbs.	800-1000	24 to 36	18 to 24	6
Celery	½ oz.	4 oz.	24 to 30	4 to 6	¼	Pumpkin	2 oz.	3 to 4 lbs.	96 to 110	60 to 84	¾
Chicory	½ oz.	4 to 5 lbs.	20 to 36	2 to 3	½ to 1	Radish	½ oz.	10 to 12 lbs.	12 to 18	1 to 2	½
Collard	¼ oz.	5 oz.	24 to 30	14 to 18	½	Rhubarb	½ oz.	3 lbs.	24 to 42	20 to 24	¾
Corn, Pop	3 oz.	6 to 8 lbs.	34 to 40	6 to 8	1	Rutabaga	½ oz.	2 to 4 lbs.	18 to 24	4 to 7	½
Corn, Sweet	4 oz.	10 to 12 lbs.	30 to 42	9 to 12	1	Sage	½ oz.	4 to 5 lbs.	20 to 24	6 to 10	½
Corn Salad	2 oz.	10 to 12 lbs.	14 to 18	3 to 4	¾	Salsify	¾ oz.	7 to 8 lbs.	18 to 24	2 to 3	¾
Cress	1 oz.	10 lbs.	12 to 18	2 to 4	½	Sorrel	½ oz.	4 to 5 lbs.	18 to 22	2 to 3	½
Cucumber	½ oz.	3 to 4 lbs.	48 to 60	12 to 36	½ to ¾	Spinach	¾ oz.	10 to 20 lbs.	14 to 18	3 to 5	¾
Dandelion	¼ oz.	5 to 6 lbs.	18 to 22	6 to 10	½	Squash, Bush	1 oz.	4 to 6 lbs.	42 to 48	42 to 48	1
Endive	½ oz.	5 lbs.	20 to 36	4 to 6	½	Squash, Vining	1 oz.	4 lbs.	72 to 90	60 to 90	1
Garlic Plant	½ oz.	5 to 6 oz.	24 to 36	18 to 24	½	Sunflower	1 oz.	7 to 8 lbs.	48 to 70	10 to 12	1
Endive	½ oz.	4 to 5 lbs.	18 to 24	8 to 12	½	Tomato	2 oz.	40 to 60	36 to 40	¾	½
.....	½ oz.	3 to 4 lbs.	24 to 32	5 to 8	¾	Tobacco	2 oz.	36 to 48	24 to 36	¾	½
.....	½ oz.	4 to 5 lbs.	24 to 32	14 to 22	½	Turnip	½ oz.	2 to 3 lbs.	12 to 20	2 to 4	½

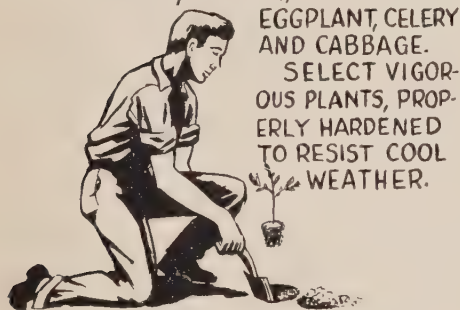
WORK DOWN THE TOP SOIL WITH A RAKE UNTIL IT IS LEVEL, FINE AND IN PERFECT PHYSICAL CONDITION.



THE BEST METHOD TO SOW SEED IS TO RUB A PINCH OF SEED BETWEEN THE FINGERS.

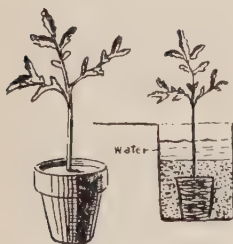


WALK ON A BOARD WHEN SOWING SEED. WITH A POINTED STICK MAKE A V-SHAPED GROOVE FOR SEED.



PLANTS ARE SAFER AND EASIER TO USE FOR TOMATO, PEPPER, CAULIFLOWER, EGGPLANT, CELERY AND CABBAGE. SELECT VIGOROUS PLANTS, PROPERLY HARDENED TO RESIST COOL WEATHER.

SETTING PLANTS



LEAVE AS MUCH OF THE ORIGINAL SOIL ON THE ROOTS OF THE PLANTS AS POSSIBLE.



WATERING IS IMPORTANT. WATERING SHOULD BE DONE IN THE EARLY MORNING.

WHAT TO PLANT

We have the highest quality seed available, both in flower and vegetable seed.

In selecting vegetables to plant include the ones your family should eat as well as the kinds they like. A well balanced diet is most important and should include green vegetables, yellow vegetables, leafy vegetables, root vegetables, and tomatoes.

HOW TO PLANT

Sow seeds at the right time indicated in the cultural directions of the catalog as well as on the seed packets. First, work down the top soil with a rake until it is level, fine and in perfect condition, before attempting to plant seed.

Seed should be sown thinly in shallow rills, made with a stick as shown in the sketch. To make the rows straight, follow a line of string stretched between stakes placed at both ends of the row. The depth of this rill depends on the variety sown. Check with the depth of planting chart above before sowing.

Seed may be sown directly from the packet, or by rubbing a pinch of seed between the thumb and index finger. This latter method gives a thinner distribution of the seed. Small seeds should not be thicker than 10 to the inch. Sow one row at a time and after each row, cover the seed lightly, touching the loose soil with a rake. Place the board used for walking between the rows on top of the sown seed and walk across it to firm the soil for better germination.

Treatment of the seed with "Cupro-cide" will eliminate a great deal of damping off, and rotting of the seed after sowing, especially if sown during the wet weather.

If the soil is moist, but not wet, at the time of sowing, watering will not be necessary before the seedlings are up. If it dries out, however, sprinkle carefully so as not to wash out the small seedlings.

WATERING IS IMPORTANT

Watering will be necessary during the growing season. It should be done early in the day. Water generously, soaking the soil deeply each time, rather than by quick "sprinkles" with the hose. In this way, the roots will grow deep, feed better and be protected from drouth, in case watering is missed during a hot dry spell. Once every week or 10 days should be ample for most soils. Observation of the soil, and testing with a shovel, will best determine when to water.

FEED YOUR GARDEN

If Your Garden Is to Feed You

Fertilizers are very important. The food value of garden vegetables for human consumption depends greatly on their mineral content, derived from the soil. The vitamin content depends on the vigor of growth and the abundance of sunlight. Therefore, the fertilizing of the soil is important to insure vigorous growth and healthy mineral and vitamin-rich vegetables. A good practice is to spade commercial fertilizer, balanced to supply the necessary proportions of nitrogen, phosphorous and potash into the soil before planting, in addition to the humus (manure, peat, compost, etc.) and phosphate and other fertilizers put into the soil at the time of preparation. They are deeper down and can be reached by the plants as they grow. Later in the season, when the seedlings are established, applications of fertilizers in small doses, as side dressers, keep vegetables in active growth. Ask us for special fertilizer formulas for vegetable gardens.

MULCHING—

A Sound Garden Practice

A good mulch, properly applied, will reduce the loss of water through the surface of the soil and keep down weeds. This results in less labor and expense in watering and cultivating. Another benefit of mulching is greater cleanliness, as it prevents the spattering of mud over the blossoms and fruits of low growing plants.

Various materials can be used for the mulch. Well rotted cow manure is highly satisfactory, especially if it is free from weed seeds. Dried lawn clippings applied in thin layers over a period of time, straw, dry leaves, chaff, sawdust, peat moss, vermiculite, hulls are all suitable materials.

Mulch should be applied when the soil is in good tilth and moderately moist.

SPRAY AND DUST FOR PESTS

Insects and diseases may infest the vegetable garden but will never become a serious problem if one watches for evidence of damage and take prompt action. Sprays and dusts are available in convenient packages to combat every garden pest. When spraying cover all parts of the plant and both sides of the leaves. Do a thorough job promptly and avoid a serious infestation.

WHAT MAKES FOR SUCCESS?

Success in gardening starts by following certain rules. Whether these be noted from the pages of books or gathered from practical experience makes little difference. The process is the same. Good seed, soil, water, fertilizer, and work makes for success.



SPOTLIGHT

TIP TOP GLAD MIXTURE

In this mixture we give you only the choicest varieties at a price that will permit of volume buying. We assure you an assortment of the latest sorts and finest colors. Prices postpaid, 80c doz., \$5.50 per 100.

DUTHIE SEED CO. GLADIOLUS

OUR BULBS ARE FUMIGATED TO DESTROY THRIP.
BEST QUALITY!

The Following Varieties 90c Doz.; \$6.50 per 100

- Blue Beauty.** Finest medium blue, large and tall.
- Candy Heart.** Buff pink with blotch.
- Carillion.** Rose salmon, white throat, fine cut flower.
- Early Rose.** Earliest rose, decorative, fine cutter.
- Bit o' Heaven.** Finest true orange, good commercial.
- Badger Beauty.** Good lavender, decorative, fine florist flower.
- Beacon.** Rose scarlet, cream throat, very showy.
- Jeanie.** Salmon rose, creamed ribs, cream throat, beautiful.
- Malta.** Giant begonia rose.
- Mother Kadel.** Best medium yellow, decorative, fine cutter.
- Margaret Beaton.** Large white, orange crimson blotch, large cutter.
- Maxwelton.** Giant medium rose with blotch.
- High Finance.** Salmon smoky, giant.
- Ike.** Gray, smoky red blotch, large flowered.
- Hinemona.** Dark and medium rose, smoky yellow throat, unusual.
- Harmona.** Salmon scarlet, beautiful flower.
- Lavender and Gold.** Very early lavender, cream throat, decorative.
- Muskoka.** Rose salmon with blotch; very early.
- Pinocchio.** Orange buff ruffled, green throat, decorative novelty.
- Purple Supreme.** Bright purple, tall, many flowers, good cutter.
- Vulcan.** Mellow purple, ladies love it.
- Ogarita.** Giant rose salmon, cream throat.
- Stella.** Light pink; large and tall.
- Summer Wealth.** Dark salmon, tall and large.
- Red Charm.** Best medium red, 8 to 9 open, tall, good grower.
- Mermaid.** Giant light rose, large and tall, fine for baskets.
- Elizabeth the Queen.** Full ruffled lavender.
- Maid of Orleans.** Commercial white.

NEWER GLADS

A selection of the finest of the more recent introductions

- Burma.** Wonderful ruffled deep rose, tall. 15c each; \$1.50 doz.
- Heavenly White.** Sparkling white, large and tall. 30c each; \$3.00 doz.
- Bolero.** Orange with brown blotch, tall, unusual. 15c each; \$1.50 doz.
- Paul Revere.** Rose red, wonderful color, plain petaled. 25c each; \$2.50 doz.
- Caribou.** Tall, stately white, lavender in throat. 75c each.
- Dazzler.** Dazzling scarlet orange, large and tall. 25c each, \$2.50 doz.
- Spotlight.** Most popular yellow, orange red blotch. 15c each; \$1.50 doz.
- Tunias Mahomet.** Giant deep smoky. 25c each; \$2.50 doz.
- Voodoo.** Striped smoky. 40c each; \$4.00 doz.
- Susannah.** Ruffled light rose, very fine and beautiful. 30c each; \$3.00 doz.
- Stardust.** Nice light blue. 25c each; \$2.50 doz.

TUBEROUS BEGONIAS

Great care is exercised in the selection of our Begonia tubers. Only the strongest tubers are chosen for you . . . tubers that are sure to bloom profusely and produce for you the largest, more robust plants and blossoms. Begonia tubers are available in February through May. Plant early indoors in pots or flats using leaf mold. When frost danger is over, move to the open garden. Protect from the hot sun and water regularly and often. Peat moss makes an ideal humus medium if you are unable to obtain leaf-mold. Order early. The demand is heavy. Delay might mean disappointment.

HANGING BASKET TYPE

Plant several tubers in an 8-or 10-inch hanging basket or pot. We suggest that you plant tubers in a mixture consisting of one-third each of well rotted manure, leaf mold or peat mull and sandy loam. Available in scarlet, rose and white.

DOUBLE CAMELLIA BEGONIA

Large full double flowers of exquisite form. We illustrate four colors of this type on the inside front cover. For sheer beauty of form and color, Double Camellia Begonias have no equal. They are breath-taking. Available in white, yellow, salmon, apricot, orange-scarlet, rose-red, salmon-rose and rose-pink. Be sure to indicate your color preference when ordering.



SINGLE FRILLED BEGONIA

Large single flowers with the petals profusely ruffled and frilled. A very beautiful form. Available in separate colors of orange, salmon, scarlet, white. Single Begonias have an appeal to those who cherish and prefer single flowers. Colors are bright, good form, very fine foliage.

CARNATION TYPE BEGONIA

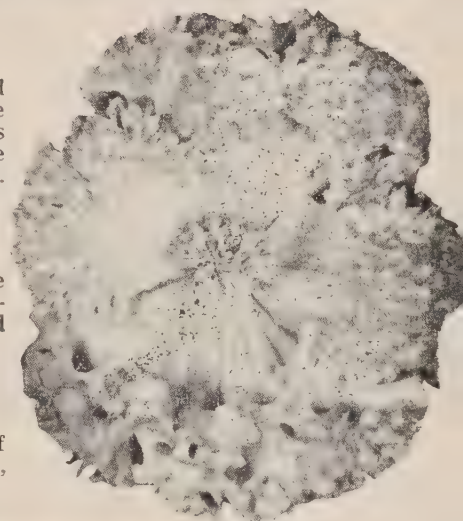
Include this variety in your collection. Flowers are laciniated and very much resemble a mammoth Carnation. Available in scarlet, rose, pink, salmon, yellow and white.

DOUBLE PICOTEE

A beautiful camellia type blossom with the edges of each petal in a different shade of color. Colors are pink, rose and salmon.



BEGONIA, TUBEROUS ROOTED



SINGLE FRILLED
TYPE

Except as
noted,
prices are
identical on all
types:

Extra large
tubers
35c each
\$3.50 dozen
postpaid

On orders less
than \$2.00
add 25c
packing charge



FLOWERING BULBS

DAHLIAS



LARGE FLOWERED DAHLIA COLLECTION

5 Top Quality Tubers **\$1.75** postpaid



MINIATURE DAHLIA COLLECTION

6 Top Quality Tubers **\$1.75** postpaid



POMPON DAHLIA COLLECTION

6 Top Quality Tubers **\$1.75** postpaid

Complete Cultural Directions Enclosed with Each Collection
Write for Our List of Named Varieties

ANEMONE

Wonderful companions to Ranunculus with large flowers of red, white, purple, lavender or rose, these showy bulbs are among the finest of spring flowers. Use them freely in the border, rock garden or shrubbery.

In the Inland Empire these bulbs are best planted in the spring for outdoor use. For indoor bloom in the winter place the bulbs in pots and grow in a moderately cool place until growth is started, then put them in a warm, sunny room.

Assorted colors, large size. 9c each; 90c per dozen.

TIGRIDIA

(Mexican Shell Flower)

Plant these gorgeous and fascinating bulbs in the spring after danger of frost has passed to enjoy the splendor of their silken flowers in a wide range of rich colors. Price \$1.25 per dozen.

RANUNCULUS

With their brilliant flowers of red, yellow, golden yellow, pink, orange and white, these easily grown bulbs deserve a place in every garden. Plant them in well drained soil in a sunny place and mulch them with straw during the cold weather. Assorted colors, large size, 9c each; 90c per dozen.



ANEMONES DE CAEN



TIGRIDIA

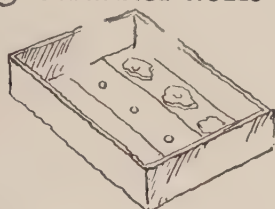


RANUNCULUS

HOW TO PLANT SEEDLINGS IN FLATS

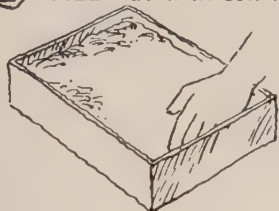
All delicate plants such as Petunias, Stocks, Snapdragons, many vegetables like Tomatoes, Peppers, Cabbage, Celery, etc., and all perennials are best grown this way from seed. It saves time, and the resulting seedlings are huskier, ready to plant out sooner and often flower earlier than those from seed sown outdoors.

① DRAINAGE HOLES

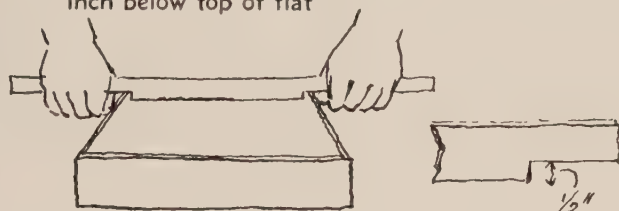


Place pieces of broken flower pots to keep drainage holes open.

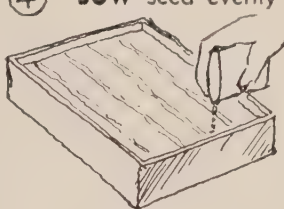
② FILL flat with soil made of equal parts of peat or leaf mold and garden loam and sand. With hand firm the soil around edges of flat



③ LEVEL soil by drawing notched lath back and forth across surface. Notches make soil level about 1/2 inch below top of flat



④ SOW seed evenly either over the surface (broadcast) or in rows which can be marked with labels. Soak flat by standing in water until surface is wet



⑤ LOOSEN plants in flat with a putty knife or similar tool



⑥ LIFT little seedlings with a special tool made by notching the end of a garden label, as shown.



⑦ TRANSPLANT seedlings carefully in new flat of soil in hole made with a small dibble or pencil. Make holes 2 inches apart each way. Press soil firmly about the seedlings. Sprinkle with a fine spray of water



When seedlings are growing vigorously transplant to the open ground in beds previously prepared by spading, working in fertilizer and raking smooth.

To keep your garden healthy— know and fight its enemies:

FUNGIOUS PESTS OF THE FLOWER AND VEGETABLE GARDEN



BLACK SPOT



POWDERY MILDEW ON
PEAS GRAPES



ROSES



EARLY AND LATE BLIGHTS
ON POTATOES TOMATOES



RUST ON
SNAPDRAGONS HOLLYHOCKS



PEACH LEAF
CURL



LEAF SPOTS

INSECT PESTS OF THE FLOWER AND VEGETABLE GARDEN



APHIS



FLEA
BEETLE



CABBAGE
WORM



CABBAGE
LOOPER



SPITTLE
BUG



12 SPOTTED BEETLE
(Diabrotica)



MEXICAN BEAN
BEETLE



FLOWER
THRIP

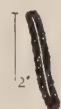
EITHER WE BRING THEM UNDER CONTROL OR THEY OWN THE GARDEN



LEAF
HOPPERS



BEETLES



CATER-
PILLARS



SNAILS



SLUGS



CUTWORMS



EARWIGS



GLADIOLUS THRIPS



RED SPIDER



MEALY BUGS



WHITE FLY

FIELD GRASS SEEDS . . . Write for Quantity Prices

ALFALFA

Sow 12 to 15 lbs. per acre

Grimm Alfalfa. State Sealed and Certified Seed. Grimm Alfalfa is a very hardy and consistent producer, and is recommended for all sections where alfalfa is considered to have a place. Highest grade seed.

Ladak Alfalfa. A variety ideally adapted to dry soils which cannot successfully grow the more common varieties. Will produce one heavy crop, and in case the moisture is not sufficient to continue growth, will survive through the season, to come again after winter rains have revived it. Strongly resistant to freezing. Also gives good results under irrigation in the Northwest.

Common Alfalfa. Universally grown popular long-rooted variety. Best adapted to deep soils.

CLOVER

Mammoth Red Clover. Also called "Pea Vine" Clover. This variety grows larger and coarser than the medium and is often used for plowing under to enrich the soil. American grown seed. 6 to 10 lbs. per acre.

Ladino White Clover. Is a very large form of clover, usually making a growth of 8 to 12 inches. A perennial. The stems lie flat on the ground and commonly root at the joints. Can be grown on rather shallow land where well supplied with humus and moisture. Medium heavy type of soil. Sow 4 to 6 lbs. per acre.

White Dutch Clover (*Trifolium repens*). A very hardy creeping clover, which adapts itself to a great variety of soils and climates. Superior for pasture either for sheep or cattle. As a bee pasture it is unexcelled. Sow 6 to 8 lbs. per acre.

Yellow Sweet Clover, Biennial (*Melilotus officinalis*). In great demand on account of its earliness, being about two weeks earlier than the white. Produces high quality hay. Sow 12 to 15 lbs. per acre.

White Sweet or Bokhara Clover, Biennial (*Melilotus Alba*). Excellent for pasture, hay and a soil improver. More drouth-resistant than alfalfa and will generally produce a large crop of seed and hay the second year. Thrives on light alkali soil. Sow 12 to 15 lbs. per acre.

Red Clover (*Trifolium pratense*). Is excellent for pasture and hay purposes. Will thrive in slightly wetter and more acid land than alfalfa. Is used in the higher altitudes and colder sections. Sow 6 to 10 lbs. per acre.

Alsike (*Trifolium hybridum*). Very hardy, adapted for sowing on cold, wet land. It yields a large amount of hay or pasture and is a good bee plant. Sow 8 to 10 lbs. per acre.

FIELD CORN

See Vegetable Seed, page 23.

FLAX

Flax may be grown with good success in the West. It matures quickly and may be planted as late as the middle of June and mature seed. Yields 10 to 20 bushels per acre. May be used with success as a nurse crop for clovers and grasses where there is plentiful summer moisture. Sow 42 lbs. per acre.

GRASSES

Bromus Inermis (Awnless Brome Grass). The best grass we have for the drier regions of the Northwest. Grows luxuriantly, is freely eaten dry or green by cattle. Sow 25 to 30 lbs. per acre. Spring or fall.

Meadow Fescue (*Festuca pratensis*). This is a very valuable species for permanent grass lands and is relished by livestock both as hay and pasture. Sow 15 to 20 lbs. per acre on well prepared soil.

Oat Grass, Tall Meadow. The earliest grass to start in the spring and holds well into the fall. Withstands rather dry, warm and cold conditions much better than many other grasses. A long-lived, deep rooted perennial. Grows equally on bottom or upland. Sow 20 to 30 lbs. per acre.

Timothy (*Phleum pratense*). This is a very valuable grass for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Sow 8 to 10 lbs. per acre.

Pasture Mixture for Burned-over Land. A blend of grasses for sowing on burns and logged-off lands. Splendid value and very economical for such purposes. Sow 10 lbs. per acre.

Red Top (*Agrostis alba*). A valuable grass for most soils. It is a good, permanent grass. It should be grazed close. Grows successfully on "alkali" bottom lands, where other grasses fail. Sow 10 to 15 lbs. per acre.

Kentucky Blue Grass. This is an excellent grass for pasture for all kinds of stock. It is very hardy. The roots form a tough sod. Blue Grass requires two years to get well started and for that reason is often sown in mixture with other grasses. Sow 20 to 25 lbs. per acre.

Superior Reed Canary Grass. A hardy perennial grass which succeeds in spite of long summer dry periods. It differs from the lowland type or regular Reed Canary Grass in that the growth is more upright, leaves more numerous and of a lighter green color. Its stems are upright and comparatively stiff but not harsh. Primarily a pasture grass with a long life, long grazing season and produces a large quantity of very succulent, palatable forage. Sow 5 to 12 lbs. per acre broadcast.

English Rye Grass (*Lolium perenne*). A strong growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Sow 25 to 30 lbs. per acre.

Italian Rye Grass (*Lolium multiflorum*). A quick growing grass, attaining a height of 2½ to 4 ft., desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Sow 25 lbs. per acre.

Oregon Rye Grass. Similar to Italian. The finest rye grass grown; superior to imported. Sow 25 lbs. per acre.

Sudan Grass. An excellent annual drouth resisting forage plant. All stock relish it. Seed in spring after soil is warm. Sow 20 to 30 lbs. per acre.

BARLEY

Montcalm Barley. A new production from Canada. Best of all in Canadian malting tests. Highest yielding of all varieties in Canadian and North Dakota tests. Smooth bearded, six-row variety. It has a strong straw, is a good disease resister, and does not shatter easily. Several tests in Idaho show it to be about two weeks earlier than other malting varieties.

OATS

Markton. A smut-resistant variety, medium straw, white kernel, early maturing.

WHEAT

Golden (Forty Fold). A soft white winter wheat, more uniform than Gold Coin and has a stiffer straw, also more shatter proof. An excellent variety for Northern Idaho and Eastern Washington.

Idaed. A beardless, white, high yielding wheat developed at the Moscow Idaho Station. It is particularly adapted to the dry land sections of the State, being about 10 days earlier maturing than other spring varieties.

AVAILABLE IN LEWISTON ONLY



Crested Wheat Grass. This is the valuable plant for our Western country and thrives well in semi-arid sections. It is one of the best and surest hay grasses for these sections. It withstands drought and the cold winters. As a mixture it does fine with Brome grass. Sow 10 to 15 lbs. per acre.

Orchard Grass or Cocksfoot (*Dactylis glomerata*). Valuable if planted alone or mixed with other grasses. Very often mixed with White Clover, Red Clover and Rye Grass. Sow 20 to 28 lbs. per acre.

MILLETS

German or Golden (*Chaetochloa Italica*). Will grow on any good land and yields heavily when irrigated. Yields from 30 to 40 bushels of seed per acre, and is excellent food for stock and poultry. Also a good green fodder and hay plant.

Hog or Puoso. The seed is large. Feeding value almost equal to corn. It is a valuable feed for hogs and cattle as well as for birds and poultry.

FIELD PEAS

Austrian Winter Peas. Here is the ideal forage legume for hay, ensilage or for pasture. The vines and pods are almost as large and heavy as garden peas. The vines are relished by all kinds of stock. Plant in the fall for best results. Will not winter-kill. Does well under irrigation and in relatively humid sections. Sow 30 to 35 lbs. per acre.

First & Best. This legume has the distinct advantage of being suited to late planting. May be used for summer green manure crop. Requires considerable moisture. Sow 120 to 150 lbs. per acre.

Our SEED POTATOES Are the Very Finest Stock
Only high yielding hills and selected tubers are used in production of this Supreme Quality seed stock.

Irish Cobbler. Splendid creamy white potato for early market. Large, round, sometimes slightly netted. Will bake dry and meally, even before ripe. Extra early.

Netted Gems. Russet Burbank, Yakima Gem, Idaho Russet, etc. A splendid main crop late potato that gives good results in dry sections. Flesh white; eyes are flush with surface; good keeper and produces a fine yield. Tubers are elongated, medium sized with russet skin. This is the variety grown extensively by irrigation in Washington and Idaho for baking. Our stock is extra choice of the most improved type.

All Potatoes: 10 lbs. \$1.60 Postpaid — Write for Quantity Prices

VETCH

Sow 40 to 60 lbs. per acre

Common Vetch. Resembles peas and valuable for forage and green manure. As a hay crop it is generally sown with oats or wheat to afford support for the vines. Usually sown in the fall. Best adapted to sections west of Cascade mountains.

Hairy Vetch (*Vicia Villosa*). Thrives on sandy soils that may be somewhat low in fertility, and makes a better growth during the cold season than the other varieties. Has very wide adaptability.

RAPE

Dwarf Essex. This crop is very highly recommended for pasturage for sheep, cattle and hogs. It also makes splendid green feed for poultry. Plant in early spring. Requires fertile, moist soil. Sow 10 lbs. per acre.

SUNFLOWER

Mammoth Russian. Heavy producer of forage and seed. Of value for silage and seed production. Plant 10 lbs. per acre.

Inoculate all Legume Seeds with

NITRAGIN

1898—FIFTY-TWO YEARS OF SERVICE—1950
When ordering, Always state name of seed.

ALFALFA (A)		SOYBEANS (S)	
Sweet, Bur, Hubam Clovers		Size	Retail
Size		2 bu. each	.....\$ .30
1 bu. each	.....\$ .50	5 bu. each	..... .50
2½ bu. each	..... 1.00	25 bu. (One can)	..... 2.25
CLOVERS (B)		30 bu. (6-5 bu. cans)	2.95
Red, Alsike, Crimson, White and Ladino.		BEANS (D)	
1 bu. each	.....\$ .50	Navy, Pinto, Wax, String, Kidney and Great Northern	
2½ bu. each	..... 1.00	1 bu. each	.....\$ .50
COMBINATION (AB)		PEANUTS, COW PEAS (E)	
1 bu. each	..... \$ .50	2 bu. each	.....\$ .30
LESPEDEZA (L)		5 bu. each	..... .50
100 lb. size (Inoculates up to 100 lbs.) ea.	.....\$ .50	GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines, Lima Beans and Edible Soybeans.	
PEAS, VETCHES (All Varieties)		Enough for 8 lbs. seed — Retail Price 15c each	
100 lb. size (Inoculates up to 100 lbs.) ea.	.....\$ .50		

CERTIFIED SEED POTATOES

WRITE FOR QUANTITY PRICES

Katahdin. Originated in Maine by the U. S. Dept. of Agriculture. Is slightly oval, white, very smooth with shallow eyes. Medium early, maturing a little later than Chippewa. Unsurpassed in cooking and eating qualities.

Bliss Triumph. Recognized as one of the very earliest varieties. Is also a good keeper. Very productive. Tubers round, pink skin, flesh very white and of excellent flavor.

Chippewa (Limited Supply). Earlier than Katahdin and especially well adapted for the Northwest. Matures a few days later than Cobblers and yields a consistently high percentage of No. 1 smooth, shallow-eyed tubers. An excellent cooker and very good storage potato.

A Condensed LIST OF PLANTS — Postage Extra

	Each	12	50	100	1000
CABBAGE, Early and Late Varieties, transplanted.....	.35	1.25	2.25	17.50	
CABBAGE, Early and Late Varieties, field grown.....	.25	.60	1.00	7.50	
CAULIFLOWER, Early, transplanted.....	.40	1.35	2.65	20.00	
CAULIFLOWER, Early, field grown.....	.30	.85	1.50	10.00	
CELERY, Utah and Golden Self Blanching, transplanted....	.35	1.25	2.25	17.50	
TOMATOES, All Varieties, transplanted.....	.40	1.35	2.65	20.00	
EGG PLANT, transplanted.....	.40	1.35	2.65	20.00	
PEPPERS, All Varieties, transplanted.....	.40	1.35	2.65	20.00	
LETTUCE, New York, transplanted.....	.35	1.25	2.25	17.50	
SWEET POTATOES.....	.35	1.25	2.00	12.00	
ASPARAGUS ROOTS, 2 years, Martha Washington.....	.50	1.50	2.50	20.00	
RHUBARB ROOTS, 2 years, Victoria.....	.25	2.50	...	...	...
STRAWBERRIES, Everbearing, Gem.....	.50	1.75	3.00	25.00	
STRAWBERRIES, Standard, Dorsett, Marshall, Fairfax....	...	1.35	2.50	20.00	
	Each	10	50	100	1000
RASPBERRIES, Red, Wash., Taylor, Newburgh.....	.15	1.25	5.00	9.00	...
RASPBERRIES, Everbearing, Indian Summer.....	.20	1.50	5.50	10.00	...
RASPBERRIES, Black, Gregg or Cumberland.....	.25	2.00	8.00	15.00	...
LOGANBERRY.....	.25	2.00	8.00	15.00	...
BLACKBERRY, Mersereau, Snyder.....	.25	2.00	7.50	15.00	...
DEWBERRY, Lucretia.....	.25	2.00	7.50	15.00	...
YOUNGBERRY.....	.30	2.50	...	...	...
BOYSENBERRIES, Thornless.....	.30	2.50	...	...	...
GRAPES, Concord, Moore's Early, Agawam, Niagara, Freedomia, Campbell Early.....	.50	4.00	...	...	...

NOTICE—All prices F.O.B. Lewiston, or Spokane. Add postage at zone rate, or we will ship by express.
Add Sales Tax in Washington

New Flower Book

"Annual Flowers"

by Cecil Solly

A Complete Guide to Gardening with Annual Flowers

This new book describes annual flowers suitable for your various garden locations along with specific cultural directions, all clearly explained and illustrated.

For every home-gardener—a must. **\$1.50**
First edition.....



Growing Vegetables in the Northwest

A new revised edition of Mr. Cecil Solly's popular book. Contains 144 pages of practical information on gardening. How to grow, sorts to use, control of pests and diseases, hotbeds, cold frames, use of land and other vital subjects for the amateur. Well illustrated. **\$1.00.**

SOLLY'S GARDEN NOTE BOOKS

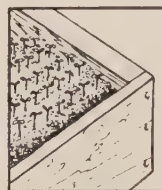
- No. 1. LAWNS (Revised). A detailed, practical program of how to prepare, plant and maintain a lawn.....30c
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SOLLY'S HARDY BULBS

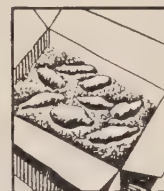
This book contains full directions for the culture of all SPRING FLOWERING BULBS, written expressly for the home gardeners who want a year-after-year display of fine bulb-flowers. Complete with many illustrations, diagrams and plenty of colored pictures.**\$2.00**



Perfect as a mulch for all plants



Seeds germinate faster. Virtually no damping off



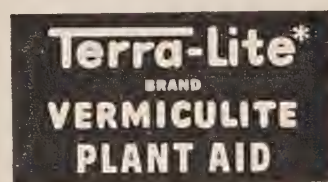
Stored bulbs stay firm and plump.



Great mass of hair roots in half the time.

BULBS PLANTS FLOWERS

Grow Better with



Indispensable to every gardener, this amazing new growing medium is now available to you. Terra-Lite lightens soil and holds moisture which cuts cultivation and watering to a minimum. Unexcelled for storing bulbs, starting seeds and transplanting. Also an ideal mulch. For thicker, greener lawns use Terra-Lite. Order it today. Terra-Lite is the registered trade mark of the Zonolite Co.

4 qt. 50c; 1/2 bu. 85c; 2 bu. \$1.85.

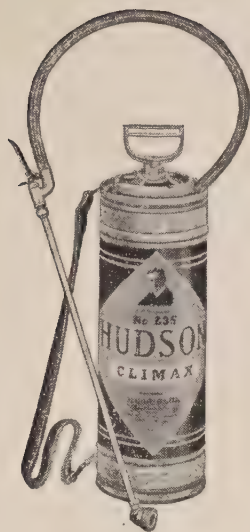
MOON SIGN BOOK



FOR YOUR GARDEN AND YOURSELF

Customers recommend this Popular Daily Guide as the best book on this subject—Get in Harmony with Nature—it pays! A mine of helpful information.

In addition to much other interesting matter it gives best dates for Farming, Gardening, Planting, Fishing, Poultry Raising, Business and Personal Affairs, etc., according to the correct Moon Sign. Sold on the publisher's unconditional guarantee, money back if not satisfied. 256 pages. Always the same price, \$1.10 in the U. S. A.



HUDSON CLIMAX COMPRESSION SPRAYER

The Hudson Climax is ideal for dozens of spraying jobs in homes and truck gardens, vineyards, orchards, dairy barns and other livestock houses, poultry houses, pens, etc. Handles at high pressure all insecticides, agricultural chemicals, whitewash; capacity 3½ gallons. 7½" by 19½" **Pump:** Size 1¾" x 14", seamless brass tubing, with Perfection Poppet valve. **Discharge Equipment:** 24" long, ¾" oil- and chemical-resistant high pressure spray hose. Perfect Spray Control Valve. 24" extension tube. Solid brass angle spray nozzle and three spray discs.

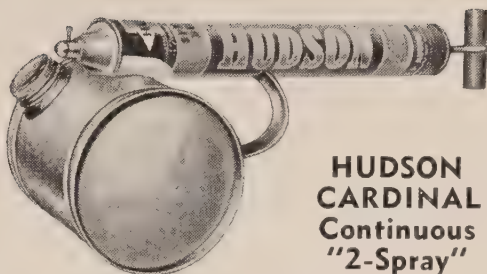
No. 235G Climax. Galvanized tank.
\$10.90



HUDSON 2, 4-D SPRAYER

Just fill the corrosion-proof copper tank of the HUDSON 2,4-D Sprayer with weed killer solution . . . pump up the pressure . . . open the valve and you're ready to go. **Cart:** Aluminum tube handle with comfortable ball grip. 6-inch diameter disc wheels with rubber tires. **Tank:** Heavy copper, securely riveted and soldered. 7¼" by 21". 3½ gallons. **Pump:** Seamless brass tubing, 1¾" by 14". **Discharge Equipment:** 24" long ¾" oil- and chemical-proof spray hose. All brass control valve. 21" brass extension tube. 18" boom with 3 nozzles.

No. 2, 4-D Sprayer. Copper tank, with cart and boom. \$21.75.



HUDSON CARDINAL Continuous "2-Spray"

3-Quart Rating

New "2-Spray" nozzle for both space and surface spraying. Recommended for farms, public buildings, restaurants, etc. Handles all sprayable solutions. **Pump:** "Nu-Action". 1½" by 13" heavy tinplate. **Tank:** Premium galvanized steel. 5½" by 6¾". 2-2/3 quarts. Large 1¼" screw cap.

No. 436—CARDINAL SPRAYER—\$2.65.

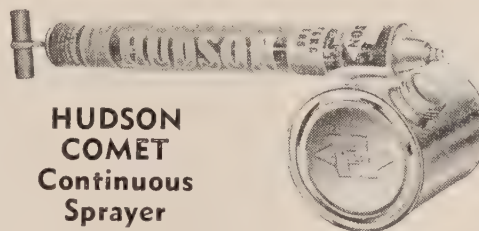


HUDSON CRITIC Continuous "2-Spray"

24-oz. Glass Jar

For preparations that attack usual metal containers. Detachable jar is impervious to corrosion. "2-Spray" nozzle for fine or coarse spray. **Pump:** "Nu-Action". 1½" by 13", heavy tinplate, with brass cap and end. Screw cap, nozzle, syphon tube all brass also. **Tank:** 24 oz. glass jar.

No. 428—CRITIC SPRAYER—\$2.30.

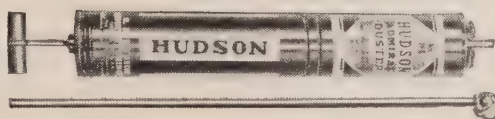


HUDSON COMET Continuous Sprayer

Full Quart

Outstanding value in a continuous sprayer at a very attractive price. For fly oils and repellents, insecticides, disinfectants. **Pump:** "Nu-Action". 1½" by 13". Heavy tinplate. **Tank:** 4¼" by 4½", heavy tinplate. 1¼" filler cap.

No. 431—COMET—\$1.30.



HUDSON ADMIRAL DUSTER

Today's outstanding duster with countless applications in garden, yards, homes, farms, hotels, institutions, etc. Built-in scoop on large filler cap. **Powder Reservoir:** 2¾" by 6". Holds quart.

No. 766A—ADMIRAL Duster—\$1.95.



HUDSON FOG NO-DRIP

The recognized sprayer for all household uses. Attractive design, neat appearance, easy operation. No syphoning or leaking. **Pump:** Patented "Nu-Action." 1½" by 10". Heavy tinplate. **Tank:** 3¾" by 3¾". Full Pint. Heavy tinplate. Large 1¼" filler cap.

No. 303—FOG NO-DRIP—57c.



HUDSON MISTY NO-DRIP

Patented recessed drip cup with vent prevents overflow or dripping. Curved syphon tube permits almost vertical operation. Big "Nu-Action" pump and full quart capacity container. **Pump:** Patented "Nu-Action". 1½" by 13". Heavy tinplate. **Tank:** 4¼" by 4½", full quart. Heavy tinplate.

No. 403—MISTY NO-DRIP—77c.



HUDSON PEERLESS POWER SPRAYER

Ideal power-operated portable power sprayer.

Engine: 1½ H.P.

Pump: Single cylinder 1½" bore, 1¼" stroke. Regulator relief valve adjustable for any pressure.

Agitator: Two stage splasher type, with self-cleaning tubular intake screen.

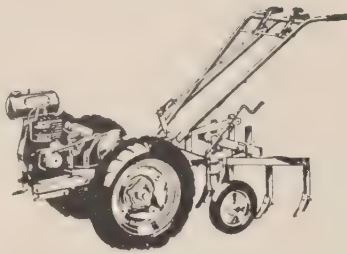
Tank: 50-gallon, welded steel barrel.

Discharge Equipment: 10', ¾" high pressure spray hose, 2-foot extension.

No. 1055—PEERLESS POWER
SPRAYER—\$181.75

AVAILABLE NOW FOR IMMEDIATE DELIVERY

SIMPLICITY GARDEN TRACTOR



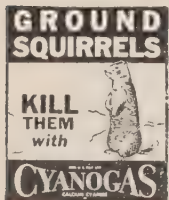
Here at last, is a light, economical garden tractor with big tractor features . . . specially engineered, not only for more accurate results from its many attachments, but also for the convenience of the man behind the wheels! The new Simplicity Model "D" has the multiple speed transmission with the right speed for every job . . . power when you need it, longer life for the tractor. New engineering refinements designed to give better performance and more economical maintenance, make this great new tractor a real thoroughbred, built of the finest materials and bred for a new kind of easy, versatile operation.

ATTACHMENTS AVAILABLE INCLUDE: CULTIVATOR, DISC, PLOW, SICKLE BAR, LAWN MOWER, WEEDING HOES, HILLING BLADES, SEEDERS AND MANY OTHERS

Write for Literature, Prices and Name of Nearest Dealer

INSECTICIDES—FUNGICIDES—WEED KILLERS

EVERGREEN SPRAY—For aphids, etc. Highly concentrated pyrethrum spray. One ounce makes 6 gals. of spray. 1 oz. 35c; 6 oz. \$1.15



CYANOGAS (A Dust)—Kills moles, rats, mice, yellow jackets, ants, etc.

Ant size, 39c; 1 lb. 98c;
5 lbs. \$3.75; 25 lbs. \$12.50

FISH OIL SOAP—Used as spray or with other insecticides as a spreader.

1 lb. 20c; 5 lb. 90c

PARIS GREEN—For chewing insects on potatoes, etc. ¼ lb. 25c; 5 lb. \$2.00.

NAPHTHALENE FLAKES—Used for repelling insects. 2 lb. 35c; 5 lb. 75c.

CHAPERONE—Dog repellent. Keeps dogs away from porches, shrubs and garbage pails.

4 oz. 60c; 8 oz. \$1.00

TRIOX—A highly effective soil sterilant for control of weeds in driveways, tennis courts, etc.

1 qt. \$1.00; 1 gal. \$3.50



BUHACH POWDER—A pyrethrum powder for the control of ants, flies, roaches, moths, etc. 1½ oz. 30c; 3¾ oz. 60c.

TREE TANGLEFOOT—A tree banding substance to prevent ants and other insects from climbing trees. 1 lb. 75c.



AMMATE—Kills permanently such weeds as wild roses, sumac, poison ivy, etc. Non-poisonous and non-inflammable.

2 lb. 95c; 6 lb. \$2.55; 50 lb. \$12.00

APPO CUTWORM BAIT—Used to control cutworms and strawberry root weevil. 1 lb. 35c.

VAPOTONE—One of the new insecticides; for the control of red spider. ½ gal. makes 400 gals. of spray. ½ gal. \$7.90.

EARWIG BAIT—A fish oil and bran product to control earwigs. 2½ lb. 90c.

SNAROL—A bait to combat snails, slugs, cutworms and grasshoppers. 1 lb. 35c; 2½ lb. 75c.

SULPHUR—For mildew, red spider. 1 lb. 15c; 4 lb. 50c.

GARDEX "Soil-Flow" GARDEN TOOLS



This 4-tined **Cultivator** is one of the most popular types on the market. The curved tines are sharply pointed and short enough for working under low bushes and plants. **\$1.90.**



No. 4107 **Gardex Scuffle Hoe**—A push-type hoe used extensively for cutting weeds in driveways as well as in gardens. The blade is made of a special high grade steel, thin as a saw blade, sharpened and can be replaced. **\$1.60.**



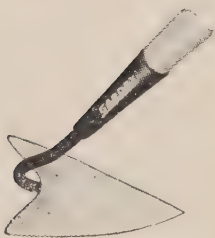
No. 403 **Gardex Lawn Sweep**—Gardex Lawn Sweep makes short work of cluttered lawns because it has distinct improvements over other lawn rakes used in the same fashion. Designed so that all 22 teeth touch the ground when it is swept across the lawn, thus utilizing the full 18-inch width and gathering everything in its path. Even the smallest leaf or piece of paper does not escape. **\$1.40.**



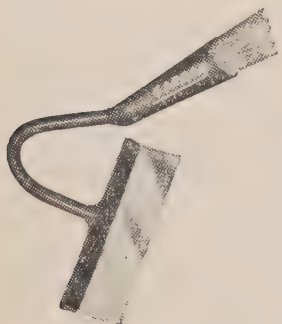
No. 171 **Aerator or "Ladies' Hoe"**—A handy tool for loosening and air conditioning the soil. For rock gardens and flower beds. Use makes for better growth. **\$1.10.**



No. 120 **Gardex Double Bow-Pull Hoe**—Most suitable for weeding and cultivating onions, beets, potatoes, etc. Cuts toughest weeds. Double bow acts as guard when hoeing around large leaf plant. Tool is light, easy to handle and well balanced. Blade of special high grade steel is thin as a saw blade, sharpened and polished—replaceable. **\$1.60.**



Warren Hoe—A very useful tool for making furrows, hilling and even weeding. Ears, point and blade edges are sharpened. High carbon steel. Nicely balanced, velvet-smooth handle. **\$1.75.**



No. 121 **Single Bow-Pull Hoe**—For close work. Light weight, well balanced. Blade replaceable.

121-5—Width blade 5", **\$1.60.**

121-7—Width blade 7", **\$1.60.**

No. 250 **Gardex Bow Rake**—Sturdily constructed of carbon steel with reinforced bow and straight back for leveling off cultivated soil. Curved teeth, nicely balanced, easy to handle and equipped with Gardex Handle Socket. Dryness or moisture will not cause handle to wobble. **\$1.80.**



No. 732 **Gardex Midget Cultihoe**—This tool has 3 prongs, a square and sharpened blade, half polished. **55c.**



No. 740 **Gardex Trowel**—High carbon steel blade. Half polished, round point, sharpened. Shank forged on to blade. **60c.**



No. 1635 **7-in-1 Diamond Point Cultivator**—The easiest and most efficient working cultivator, designed for light and heavy soils. Easily adjustable without wrenches to make 7 useful combinations. **\$2.75.**



No. 713 **Gardex Midget Cultivator**—For use in small beds, between narrow rows, in hotbeds, etc. **40c.**



No. 703 **Gardex Midget Fork**—Handy for many purposes like planting house plants, flowers, etc. 3 forged prongs. **40c.**



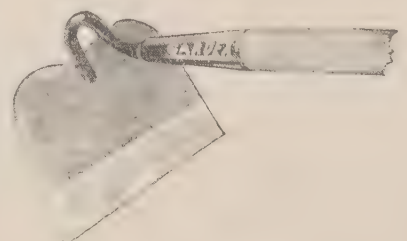
No. 715 **Gardex Midget Rake**—Small handy design. Has 5 curved teeth. **50c.**



No. 270 **Gardex Small Hand Seeder**—Has adjustable hopper for spacing and adjusting size of holes for smallest flower seeds up to cucumber size. Discs come apart so hopper can be filled with seeds. Holes are adjustable for seed size by turning discs one way or the other. **\$1.60.**



No. 906½ **Garden and Field Hoe**—For those who find it difficult to "go modern", we offer the conventional Field Hoe. It has the famous Gardex Socket. No wobbling of handle. Sharpened blade, not polished, of high carbon steel, to which shank is forged, never to come loose. Attractively priced. **\$1.10.**





BRING APRIL SHOWERS TO YOUR GARDEN ANY TIME OF THE YEAR WITH 'NATURAIN'

CONNECTS IN A JIFFY. No constant shifting. No wasted water. Adjustable from 25 foot spray for lawns to 2 inch trickle for seedlings.

NATURAIN UNITS ARE 5 FEET LONG AND WEIGH ONLY 12 OUNCES. USE 5 FEET TO 30 FEET ON NORMAL HOME PRESSURE.

PRIMARY UNIT	SECONDARY UNIT
\$2.95	\$2.49 EACH

NATURAIN IRRIGATORS

Made of durable aluminum and stainless steel tubing with two rows of small holes bored along the top of the tubes in order to let a small amount of water emerge from each hole. The height of your water spray can be controlled by your water pressure from 2 inches to a 25 foot spray on a 30 foot length of tubing. Start with one to three 5 ft. lengths now and add to your system later as your gardening needs expand.

RAIN KING SPRINKLER MODEL K

Automatic, new, sensational sprinkler that you can set instantly to sprinkle any size circle 5 to 50 ft. by simply turning the button on top of the sprinkler. Price each, **\$6.75**. Shipping weight, 5 lbs. each.



AIROIL WEED BURNERS

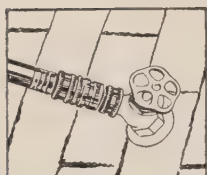
No. 99 SENIOR WEED BURNER—A smaller model than the Giant, with 4-gal. copper-bearing, extra heavy galvanized steel fuel tank, all seams welded and tested to 100 lbs., 60-lb. pressure gauge, 1 1/4" brass-bronze unions; seamless steel removable coil burner with windshield and combination valve strainer and carrying hand which is detachable. Tank has a snap-on web adjustable shoulder strap. Shipping weight, 21 pounds. Average fuel consumption, 1 gal. per hour.



No. 99—Senior Airoil Weed Burner—\$22.00 complete

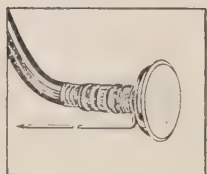
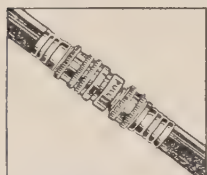
Airoil Spray Attachment, \$3.50 each

GREEN SPOT GARDEN HOSE ACCESSORIES



THE QUICK CONNECTOR

The new improved 1949 GREEN SPOT quick connector is one of the handiest and most useful of garden hose equipment items. It makes hose-to-hose, hose-to-faucet, and hose-to-sprinkler connections in a fraction of the time required by conventional threaded fittings. In addition to these, it has a multitude of other uses around the house, garden and garage. Especially convenient for attaching washing machine hose. **\$1.00 Set.**



THE GREEN SPOT SUPER-CLINCH COUPLING

has been thoroughly engineered and tested over a period of several years. All parts except the clinching fingers are made of heavy gauge wrought brass. Fingers are steel with rust-resistant plating. Supplied in sizes for 1/2", 5/8", and 3/4" (inside diameter) hose. **38c Set.**

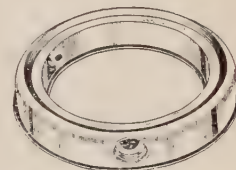


THREE ARM SPRINKLER

The best three-arm sprinkler we have ever tested in our laboratory. Provides a uniform raindrop spray covering a 40-foot circle at 30 pounds pressure. Head is completely assembled with arms pre-set to throw a spray in the correct amount for producing best grass growth. All moving parts are made of brass; base is cast iron lacquered green. **\$3.50.**

THE GREEN SPOT RING SPRINKLER

has been redesigned and laboratory tested to give the best in performance and appearance for this type of sprinkler. Covers areas up to 20 feet in diameter and makes an ideal spray for children to play in. Made of solid wrought brass with attractive bright finish. **\$1.65.**

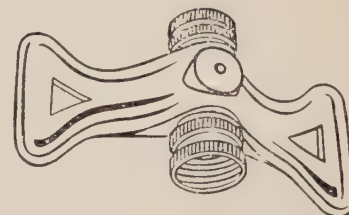


FAN SPRAY

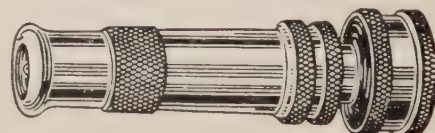
This gives off a flat, wide spray which is good for watering roots of garden plants without wetting the foliage—which the experts tell me is the way to do it. **60c.**

MULTIPLE SPRINKLER

This sprays an area up to 15 feet in diameter with a fine mist, and it's a smart idea to use several of them to relay at intervals to water terraces, sloping lawns and gardens, long narrow stretches (such as driveways), irregularly shaped areas, and hard (clay) soils that do not easily absorb water. There's a cap to screw on the "far end" of the last one in a circuit, or in case you use only one. **95c Each.**



TOPS IN THE LINE OF GREEN SPOT HOSE NOZZLES



It was designed to give a lifetime of trouble-free service. Machined from solid brass with a self-centering floating stem and a non-rising control sleeve. This means longer life for the water-tight seal at the base of the sleeve. Produces a straight stream, all types of spray, and has a positive shut-off. Outer body heavily knurled for easy fingertip operation. **\$1.10 Each.**

Miller's GARDEN COMPOST MAKER



A 5-pound package of Miller's Garden COMPOST MAKER will make several hundred pounds of high-grade organic humus fertilizer by converting garden and kitchen refuse, weeds, leaves, and grass clippings into a rich organic humus compost.



Miller's GARDEN BOOSTER POWDER



Make your own Booster Fertilizer Solution as low as 1c a gallon with Miller's Garden BOOSTER POWDER. Stimulates Plant Growth, Root Formation, Fruit Setting, Flower Production, Produces vegetables rich in flavor and minerals essential to your health.



Better Gardening WITH Miller's

Miller's GARDEN SPRADUSTO

Insecticide - Fungicide
SPRAY or DUST

Flower Gardens, Shrubs, Ornamentals
Used regularly controls Powdery Mildew, Black Spot, Rusts, Aphids, Leaf Hoppers, Beetles, Caterpillars.
Effective - Safe to Use.
Contains 5% DDT, Rotenone, Pyrethrum Sulphur, Ferromene.



Miller's LIQUID LIME SULPHUR with spreader CALCIUM POLYSULPHIDE SPRAY

Year-Round Insecticide-Fungicide Calcium Polysulphide Spray for Powdery Mildew, Peach Leaf Curl, San Jose Scale, Red Spider and Leaf Blister Mites, and Apple and Pear Scab.



Insist on Miller's



NO FROZEN PIPES GRO-QUICK Electric HEATING CABLE

Prevent freezing at sub-zero. A permanent solution. One cable wrap per ft. of pipe or bury with pipe. Any one can install. Uses but little house current. Order shortest cable possible for your length of pipe — prepaid.

A6	15 w. for 1 to 3 ft. pipe	\$1.00
B12	30 w. for 3 to 6 ft. pipe	\$1.80
M26	60 w. for 6 to 12 ft. pipe	\$2.80
J56	140 w. for 12 to 25 ft. pipe	\$3.00
S112	280 w. for 25 to 50 ft. pipe	\$6.00
FAT	35° thermostat with pilot lt.	\$4.50
Wrap-on Insulation per 12' of pipe		\$1.00



Sunlight THROUGH R-V-LITE

R-V-LITE CHICK



UNDER GLASS CHICK

DOZENS OF USES ON EVERY FARM



- Over 60% of the Sun's life-giving "Vitamin-D" Rays pass freely thru R-V-LITE, scarcely 1% thru common glass.
- Ideal for poultry houses, farm buildings, hot and cold bed frames, sunporches, storm doors and windows.
- See your hatchery, feed, seed, lumber or hardware dealer

65c Square Yard
36" Width

Double Duty



PRICE
\$1.00

Product of Mac Carl Company, Cleveland 9, Ohio

PLANT FOUNTAIN The Ideal Bulb Sprinkler

For Home and Garden . . . Clean
Handy
Attractive

MOST Practical and enjoyable method of watering or spraying plants and seedlings.

LASTS Indefinitely — curved Stem and detachable Sprayer are made of plastic materials (various colors). Bulb of quality rubber.

PREFERRED among plant fanciers — The New Double Duty Plant Fountain is greatly preferred to the clumsy water-pitcher or old fashion watering can.

Numerous other uses — i.e., Changing water in rose bowl — sprinkling clothes — filling battery, etc.

GUARD AGAINST HARD-TO-CONTROL SOIL INSECTS IN YOUR GARDEN

See what CARCO-X can do

Easy to Use
Many Purpose Spray

It's Taking the Country by Storm

Ask for Literature
Showing Accurate PROOF
Of Pest-Free Gardens



Also Other Insects & Fairy Ring
IN YOUR LAWN

ECONOMICAL

One gallon CARCO-X makes up to 200 gallons of spray
Depending on pests you are treating.

Retail Prices	Postpaid Prices
1/2 pint . . \$.85	\$1.00 . . . 1/2 pint
1 pint . . . 1.25	1.45 . . . 1 pint
1 quart . . 1.95	2.30 . . . 1 quart
1 gal. . . . 4.95	5.45 . . . 1 gallon
5 gals. . . 20.00	Expr. coll. 5 gal.
plus sales tax	plus sales tax

GET REAL LAWN PLEASURE

For a lawn that can "take it" feed VIGORO, complete plant food. Vigoro supplies grass the vital nourishment required from the soil to attain sturdy growth and beauty.

Vigoro is balanced for grass. It helps

grow extensive root systems that stand up well under hard play and continuous usage.

You'll prefer Vigoro because it's clean, odorless, sanitary and easy to use. Include it on your seed order.

100 lb....	\$5.00
50 lb....	3.00
25 lb....	1.75
10 lb....	.90
5 lb....	.50

VIGORO

Complete Plant Food

A PRODUCT OF SWIFT



THE ANSWER TO MOST PEST and WEED TROUBLES!



- Controls most...
- Chewing insects
 - Sucking insects
 - Fungus diseases

A few strokes of the exclusive EndoPest dust gun envelops your plants in an almost-invisible protecting film... gives you control over most chewing insects, sucking insects and fungus diseases. Use with confidence on edible fruits and vegetables.

End o Pest Applicator, 10 oz.....\$.90
Refills, 10 oz......75
Shaker Top, 4 oz.....35c; 2 lbs..... 1.98

Spray ugly weeds away with EndoWeed, improved selective lawn weed killer. EndoWeed penetrates the entire plant. Kills dandelions, chickweed, plantain and over 100 other weeds, roots and all, yet will not harm ordinary grass. 1/2 pt. treats 2000 sq. ft. of lawn.

End o Weed—
1/2 pint\$1.00
1 quart2.75

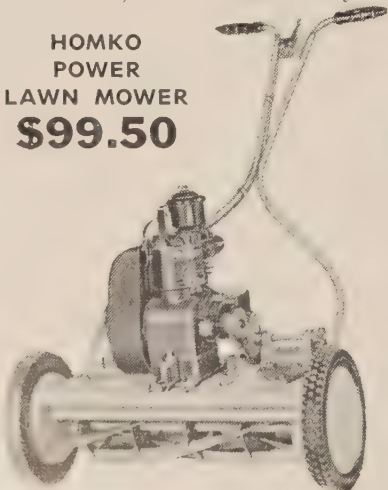


End o Pest By the makers of **VIGORO** **End o Weed**

HOMKO LAWN SWEEPER

- **BE MODERN**—groom your lawn with the LS-240 Lawn Sweeper. This is the modern way to clean lawns and parkways.
- **A RAKE IS SLOW**, tears out the grass, misses grass clippings, acorns, and stones. The LS-240 Sweeper sweeps clean, picks up leaves, grass clippings, twigs, stones and acorns. Holds approximately six bushels before basket needs emptying.
- **NO PILES OF LEAVES** around the lawn to be carted away in baskets. Sweep this large basket full, wheel it to your disposal point and empty by merely turning over.
- **THE LS-240 SWEEPER IS NOT ONLY A LEAF RAKER**—it's a season 'round necessity. Sweeps grass clippings clean—allows your lawn to breathe and your grass to spread with a rich, heavy, luxurious growth.
- **SWEEPS UP OBNOXIOUS WEED CLIPPINGS** so that they cannot seed and spread in your lawn.
- **FOR A WELL GROOMED LAWN**, swept clean with ease and without fuss, use the LS-240 Lawn Sweeper.
- **HANDSOME APPEARANCE**, streamline design, beautiful harmonious finishes, floor models really draw attention.

HOMKO
POWER
LAWN MOWER
\$99.50



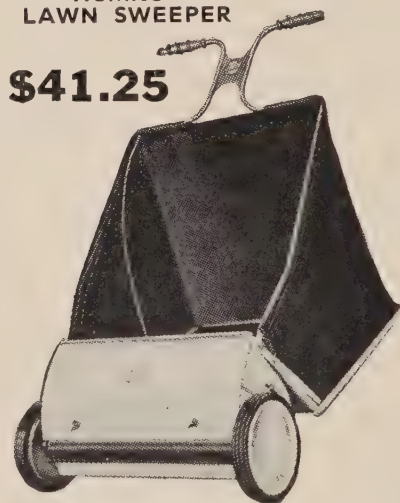
Ten Reasons Why

HOMKO POWER LAWN MOWERS ARE THE FINEST IN THE INDUSTRY

- Rigid all-steel "box type" construction.
- Extremely easy to operate. No levers or gadgets to manipulate.
- Finished in attractive colors.
- Reinforced extra heavy cutter bar with simple cutting adjustment.
- Handle swings upright for easy storage.
- Precision ground ball bearings shielded for dust protection. Oilite bearings in wheel.
- Large sectional rollers which can roll lawn lightly and smoothly.
- Gears of high tensile strength alloy... precision cast for long life.
- Massive rubber tired wheels with choice of Standard or Hi-cut tires. Also available are extra Hi-cut tires.
- Cutting blades of top quality, fully tempered steel.

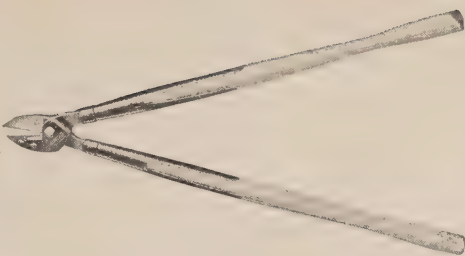
HOMKO
LAWN SWEEPER

\$41.25



IMPROVED "REDLAND" PRUNER

Ideal for orchard and vineyard, the "Redland" is recommended for all kinds of fruit trees and shrubs. The long, slim cutting parts, made of tempered, polished and ground steel forgings, permit work in very close places. Strong, medium weight, yet capable of the heaviest pruning. Slices through $\frac{1}{2}$ " limbs easily. High quality ash handles with long, tubular ferrules. \$4.40.



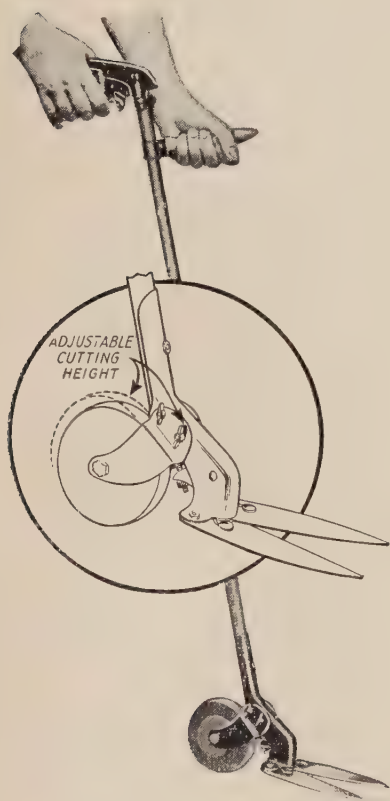
No. 419—"SNAP-CUT" PRUNER

The exclusive, world-famous "Snap-Cut" action skilfully applied in a modern, scientifically designed pruner of sturdy heat treated airplane aluminum. Smooth, streamlined, unsurpassed for pruning comfort, this unbelievably lightweight "Snap-Cut" is an effortless performer, cutting branches $\frac{3}{4}$ " thick like matchwood. Non-tiring to hands and no burden in the pocket. Blade of finest alloy steel, carefully hardened and tempered by modern methods and equipment that assure uniform, superior quality. Expertly ground and polished. \$2.75.



No. 1575 "STAND UP"

The last word in a grass clipping tool. Cuts from a standing position—simple as walking—no stooping, bending, sore knees, or backaches. New 4" diameter wheel makes shears easy to position, easy to roll exactly where desired. No twisting and turning at lawn irregularities as with shears having small guide wheels that sink in every hollow. Wheel can be quickly removed, enabling high, light trimming of vines and rock gardens. New, exclusive, height adjuster adapts Stand Up Grass Shears to most comfortable position for short or tall users. Also regulates exact trimming level. Simple "squeeze" action on handles controls blades at bottom of tubular steel shaft. Won't pinch or tire hands. \$3.85.



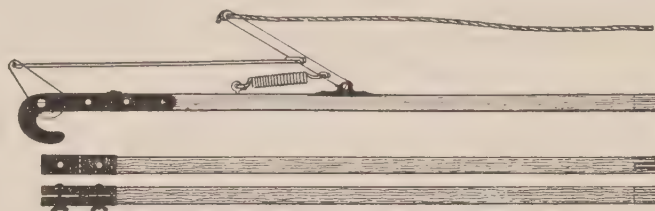
No. 157 IMPROVED EZY-CUT GRASS SHEARS



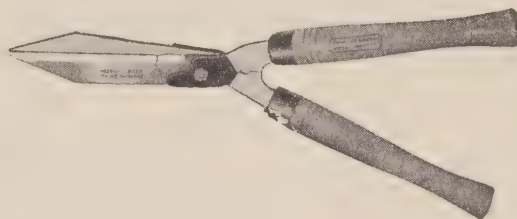
"squeeze-grip" action. Operating parts housed and protected. Positive, one-hand thumb catch convenient to thumb of hand operating shears. Entire tool easily taken apart for cleaning. \$2.15.

A handsome, highly efficient tool. Self tensioning. Cuts clean the full length of the blades. Tempered cutlery steel blades with cadmium rust-resisting finish. Stream-lined, steel handles finish in orange and black. Easy non-tiring, non-pinching

A PATENTED PRUNER IN TWO 6-FT. JOINTED SECTIONS which are easily and quickly assembled to make a 12-ft. Tree Pruner. When disassembled can be conveniently stored in any home cellar or garage. An ideal pruning tool for all high, briery, and hard to get at places. Simple operation by rope control. Steel blade severs branches smoothly and cleanly. Poles equipped with strong, well-fitted joints. Easily made up or taken down. \$5.50.



No. 154N—"LIGHTNING CLIPPER" HEDGE SHEARS



Finest cutlery steel, flame hardened edge blades—long bevels and thin, keen edges. Top blade has sharp, hooked teeth to grip twigs for easy cutting. Both blades hardened, tempered, precision hollow ground and beautifully polished. High list handles above hedge provide ample clearance protecting operator's hands from scratches. Outstanding shears in performance and durability. \$3.30.

No. 119— ORIGINAL "SNAP-CUT" PRUNER



Nationally known quality pruner. Clean, sure, slicing stroke does not injure bark and leaves quick healing cut. Designed for rugged durability. Alloy steel cutlery blade is precision ground and expertly polished. Smooth acting steel spring readies pruner for each cut. Comfortably shaped, non-pinching, pressed steel handles with handy, quick-action safety catch. \$2.50.

GOOSE NECK

Leave one of these on every faucet connection. It brings the connection out where you can get at it without acrobatic contortions and without skinning the bark off of your knuckles. What is more important, it saves that bending and kinking of the hose at the faucet. This goose neck will soon save its cost in hose preservation. \$1.00.



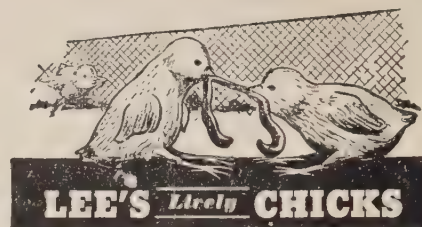
"Y" CONNECTOR

This provides a way to hook two lengths of hose to one faucet, or to get a branch line of hose out in the lawn somewhere—for example, if you want to keep two automatic sprinklers going at the same time. 90c.

LEE'S LIVELY CHICKS

U. S. Approved Pullorum Passed
as Supervised by Oregon Department of Agriculture
Prepaid Prices — 100% Live Delivery Guaranteed

1949 BABY CHICKS 1949



Day Old	Straight Run		Sexed Pullets		
	Per 50	per 100	per 25	per 50	per 100
White Leghorns (Regular)	\$ 9.75	\$18.00	\$10.00	\$19.25	\$37.00
White Leghorns (Special)	10.75	20.00	10.50	20.25	39.00
Austria Whites	10.25	19.00	10.00	19.00	36.50
New Hampshires	10.25	19.00	8.25	15.50	29.00
Parmenter Reds	10.25	19.00	9.00	17.25	33.00

When ordering the following, give second choice:

Day Old	Straight Run		Sexed Pullets		
	Per 50	per 100	per 25	per 50	per 100
White Rocks	\$10.75	\$20.00	\$ 9.00	\$16.75	\$31.50
White Wyandotts					
Buff Orpingtons					

SHIPPED FROM SALEM, OREGON

For Further Information Regarding Other Matings and Cockerel Chicks

Ask for

LEE'S BABY CHICK CHATS

GEO. H. LEE POULTRY MEDICINES



GERMOZONE

Convenient drinking water antiseptic to help prevent spread of harmful germs. For many simple bowel troubles. 4 oz. 40c; 12 oz. 75c; 32 oz. \$1.50; 1/2 gal. \$2.50; 1 gal. \$4.50.



ACIDOX

"Drinking-water" medicine to aid in prevention and treatment of cecal coccidiosis. 4 oz. 50c; 12 oz. \$1.00; 32 oz. \$2.00; 1/2 gal. \$3.50; 1 gal. \$6.50.



TONAX

A balanced tonic and appetizer. A powder easily mixed with growing or laying mash for chickens and turkeys. 12 oz. can 30c; 2 lb. can 75c; 6 lb. can \$2.00; 25 lb. pail \$7.50; 50 lb. drum \$14.00; 100 lb. drum \$25.00.



GIZZARD CAPSULES

For Round Worms, Pin Worms, and large Tape Worms. Patented insoluble coating carries drug direct to worms. Adult: 10 cap. env. 15c; 50 cap. pkg. 75c; 100 cap. pkg. \$1.25; Pullets: 10 cap. env. 10c; 50 cap. pkg. 50c; 100 cap. pkg. \$1.00; Chicks: 10 cap. env. 10c; 50 cap. pkg. 40c; 100 cap. pkg. 75c.



LEEMULSION

For symptoms of colds, wheezing, and bronchitis. Especially recommended for young chicks. Valuable for pigs. 4 oz. bottle 50c; 12 oz. bottle \$1.00; 32 oz. bottle \$2.00; 1/2 gal. bottle \$3.50; 1 gal. bottle \$6.50.



PERCH PAINT

An economical, efficient, Nicotine product for the control of poultry lice. Used by painting on roosts. 1/2 pint can 85c; 1 pint can \$1.50; 1 quart can \$2.50; 1/2 gal. can \$4.00; 1 gal. can \$7.00.



VAPO-SPRAY

An inhalant recommended in diseases affecting the air passages. Valuable for poultry, hogs and rabbits. 1 pt. can 50c; 1 qt. can 75c; 1/2 gal. can \$1.25; 1 gal. can \$2.00; 5 gal. can \$8.75.



LEE'S NEW SULFAMERAZINE

A liquid drinking water medication to aid in the control of pullorum disease and cecal coccidiosis. 4 oz. bottle \$1.25; 12 oz. bottle \$3.00; 32 oz. bottle \$7.50.

DUTHIE'S Supreme Quality CHIX

HATCHED EXCLUSIVELY FOR US BY ONE OF THE LEADING HATCHERIES IN THIS SECTION

LOWER PRICES — HIGHER QUALITY

Write for Prices!

NOTE: Available from LEWISTON ONLY

MAKOMB WORLD'S LARGEST BROODER BUILDER



SENIOR ELECT-O-STAT WITH FAN FORCED CIRCULATION

Elect-O-Stat fan forced circulation evenly diffuses the heat from corner to corner and takes less current. Fresh cool air is pulled down through the top ventilator. It moves across the Reflector, picking up any heat radiated through. It's blown over the element, then circulated outward and in part pulled back to meet and temper continual intake of fresh air. Control is by our time tried and proven snap action switch. Motor draws only 17 watts. Powered by 800 watt fully enclosed porcelain insulated element—thousands in use and not one reported defective.

Cat. No.	Price	Size	Area Covered	Capacity	Weight
C9-52	\$49.95	52" square	2704 sq. in.	385	66 lb.
C9-60	55.10	60" square	3600 sq. in.	515	80 lb.

SMALL FLOCK ELECTRIC BROODERS

Two full powered electric brooders especially designed for the smaller flocks. They carry the same tried and proven dependable units as the larger models — are as dependable as any at any price. Dependable snap action automatic control, double sealed against dust. Powered by 500 watt—15" diameter element fully enclosed in tight die drawn case. Masonite insulated.

Cat. No.	Price	No diffuser	Size	Broods	Weight
C1-35	\$19.15		38" x 38"	200	26 lb.
C1-46	22.45	With diffuser	46" x 46"	300	37 lb.

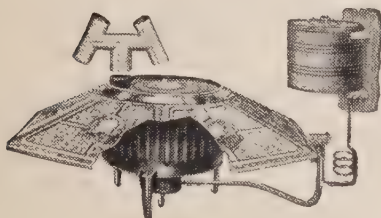


Raises chicks to 6 weeks old under most sanitary conditions. Screen floor 1/2" sq. mesh braced with steel rods, dropping pan 1 3/4" below. Heat is supplied by big 13"x24"—60 watt contact heater. Size inside 24"x36"—head-room 9 1/2"—weight 38 lbs. Cat. No. C2-20\$17.80

FLOCK WATERERS

Troughs are of heavy galvanized steel, 40" long, 6 gal. capacity, grid guard, lift right out of cradle for easy cleaning. Stand finished in red baked on enamel. Electric heated Model (illustrated) has 50 Watt porcelain insulated element housed in heavy copper tube.

G8-41—Trough on Short Legs....	\$ 4.60
G8-42—Trough on Stand.....	6.70
G8-43—Trough on Stand, electric heated	10.15



OIL-O-STAT BROODERS

The silent Oil-O-Stats have proven highly satisfactory to thousands of users. The Saveway Pot Type Burner is of the same type used in the highest priced oil heaters for the home. Its clear, clean burning, powerful flame is more efficient, makes more heat per dollar. No moving parts, no separate parts to lose in this one-piece assembly of extra heavy steel. INVERTED SMOKE PIPE—another first for Makomb. The first Drum Brooder with the smoke collar reversed so that the pipe is installed upside down. That keeps the tarry substances (resulting from condensation) on the inside of the smoke pipe. Experienced brooder operators appreciate it.

Cat. No.	Price	Canopy	Drum Dia.	Broods	Weight
A2-1956 with London Cap	\$27.00	56"	24"	425	59 lb.
A2-1965 with London Cap	27.30	65"	24"	525	62 lb.
A2-2045 with London Cap	23.20	45"	20 1/2"	340	45 lb.
A2-2056 with London Cap	25.30	56"	20 1/2"	425	50 lb.

BATTERY BROODERS

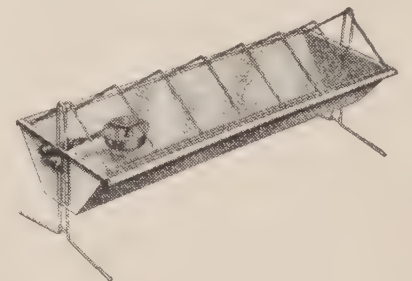
Illustrated at left, complete broiler plant. Start 40 to 50 chicks in the heated upper deck. After four weeks, divide and move down to the two lower decks, while replacing with 50 more. The 60 Watt true contact heater in the rear at the top deck supplies sure time-proven protection, adjusts upward as the chicks grow. Each deck 24" x 36" inside.

P2-40—Junior Broiler Plant.....\$48.00

Or buy the master plant that has capacity to raise 35 broilers per week, 57" long, 39" wide, 68" high. The box type massive posts, the die formed channels and the welded wire sides form a strong, rigid unit.

P9-35—Master Broiler Plant.....\$110.00

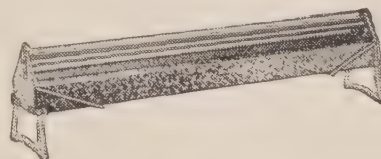
Write for description and prices on Makomb Individual Starter, Grower and Finishing Batteries. Makomb batteries and equipment feature heavier prime steel construction throughout. No aluminum or other substitute materials used.



ALL-AGE FEEDERS

The only feeder (at right) with patented Snap-Lok legs. Heavy galvanized steel trough 4 3/8" wide by 2 1/4" deep, with 4-vane adjustable steel reel.

H7-536—36" long	\$1.35 each
H7-548—48" long	1.70 each



\$4.10

Model H6-5, above, waters broilers, hens or turkeys. The big trough is 24" long, 9" wide and 3 1/2" deep. Adjustable legs raise edge to 9" above floor. Furnished complete with special type float valve.

GLASS JAR FOUNT

Fits almost any jar securely, feeds properly. Has elevated base rim. Of flame tempered clear glass.

Model H2-3	17c
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SNAP ON JAR FOUNT

Most convenient and durable. Cannot rust tight to jar. Jar snaps off or on, is held secure by tempered leaf spring.

Model H7-6	14c
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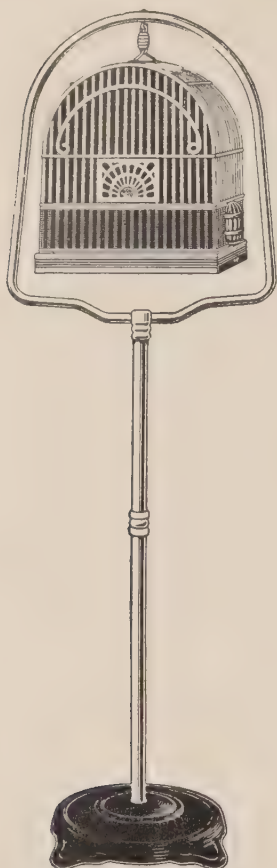


ELECTRIC IMMERSION HEATER

Model M8-22, at left, lays right in the drinking trough. The only one for use with popular round founts having a 1 1/2" wide trough as well as open pans or troughs. Holds water at 50° to 55° automatically. Heavy tinned copper case houses 200 watt element and genuine snap action automatic switch

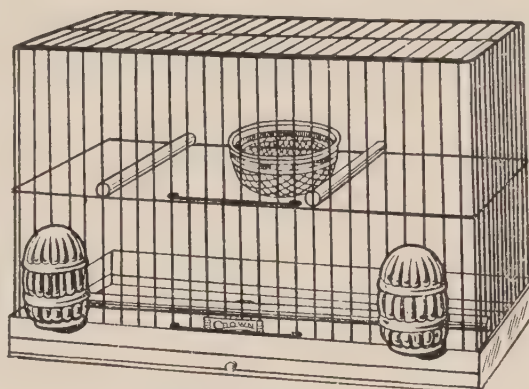
SINGING CANARIES

Through the Fall and Winter months we have a large supply of beautiful singers. Each one guaranteed.
YOUR INQUIRY INVITED



MODEL A CAGE
\$3.95

MODEL A STAND
\$3.95



SINGLE BREEDING CAGE
COMPLETE \$3.75



MODEL T CAGE
\$11.50

MODEL T STAND
\$7.50

DUTHIE'S BIRD SEED

DUTHIE'S Roller Canary Mix.....	30c lb; 2 lbs. 55c
DUTHIE'S Love Bird Seed.....	20c lb.
DUTHIE'S Regular Treat Seed.....	4 oz. 15c
DUTHIE'S Special Treat Seed.....	4 oz. 25c
DUTHIE'S Gravel with Charcoal.....	2 lb. 15c

SPRATT'S

SPRATT'S Roller Canary Mix.....	38c
SPRATT'S Song Restorer.....	25c
SPRATT'S CLO Nestling Food.....	35c
SPRATT'S Bird Tonic.....	25c
SPRATT'S Love Bird Seed.....	30c
SPRATT'S Moulting Food.....	30c
SPRATT'S Color Food.....	25c
SPRATT'S Bird Lice Powder.....	30c

MISCELLANEOUS SUPPLIES

Bird Phonograph Record.....	\$.80
Bird Bath Glass.....	.25
Cage Cups, Outside.....	.10
Cage Cups, Inside.....	.20
Treat Cups.....	.06
Bird Nests, Plastic.....	.25
Bird Nests, Wire.....	.20

PETPAK PRODUCTS

Vitamin Song Seed, 14 oz.	35c
Parrakeet Seed, 1 lb. ctn.....	29c
Marvel Song Food, 4 oz. jar.....	35c
Mineral Grit with Charcoal, 1 lb. 11 oz.	15c
Cuttle Bone.....	10c
Baby Bird Food, 4 oz. jar.....	35c
Mating Food, 4 oz. jar.....	35c
Nesting Hair.....	10c
Cod Liver Oil Egg Food, 10 oz.....	35c
Bird Bitters, 2 oz.	25c
Iron Tonic, 2 oz.	25c
Bird Salve, for scaly feet.....	15c
Feather Pulling Remedy.....	25c
Parrakeet and Parrot Tonic.....	25c
Charcoal, 2 oz.	15c
Moulting Food, 4 oz.....	35c
Color and Pepper Food, 4 oz.....	35c
Vitamin Bird Bell.....	10c
Mite and Lice Powder.....	15c
Bird Wash.....	25c
Cage Cleaner, Mite Destroyer.....	25c

DOG AND PET FOODS



SPRATT'S DOG BISCUIT FOODS

For 75 years the best-known dog foods in the world. A complete, well-balanced food for all breeds of dogs.

Spratt's Dog Foods are either in biscuit form or granulated (broken-up). They can be fed dry or mixed with vegetables, gravy, broth, etc. For grown dogs one heavy meal in the evening is enough with a few dry biscuits in the morning.

Spratt's-fed dogs are healthy dogs. Their teeth and gums will be firm, their digestion normal, coat glossy and breath sweet and pure. Bowel trouble and skin disorders, so common in dogs fed on soft and sloppy foods, will be conspicuous by their absence.

DOG FOODS

Assorted Dog Biscuits. A variety of several of Spratt's most popular Dog Biscuits. Contain Pixie, Ovals, Charcoal Ovals, Cod Liver Oil Ovals. Per lb. 25c.

Fibo. Granulated food (about the size of peas). For dogs of all ages, breeds or condition of health. Very nourishing and appetizing. Per lb. 25c.

Cod Liver Oil Ovals. Small oval biscuits. Wonderful for all breeds, especially small dogs. Crunchy and satisfying. Convenient to carry in your pocket when on a walk with your dog. Per lb. 25c.

Charcoal Ovals Same as Ovals with pure Charcoal added—black in color. Absorb intestinal gases and impurities, wonderful safeguard against intestinal and stomach ailments. Every dog should have two full meals of these each week; meat-fed dogs even oftener. Per lb. 25c.

Dog Cakes. Large, square cakes; the staple diet for the large and medium breeds. Should be fed dry. Per lb. 25c.

Pixie Dog Biscuits. The bone-size biscuits for all dogs. Convenient shape, easy for the dog to grasp. Ideal for all medium and small breeds. (For large breeds see Dog Cakes, large, square biscuits.) Per lb. 25c.

Cat Food. A granulated food for all cats, a well-balanced and complete food. Can be fed dry or mixed with milk or hot water. In packages, 15c and 45c each.

PUPPY FOODS

Puppilac. A full cream powder, for feeding very young puppies, hand-feeding orphans, etc. Can be fed from birth until weaning time. Richer than cow's milk, the ideal substitute for the mother-dog's natural milk. 10-oz. tin \$1.00.

Pepsinated Puppy Meal. For feeding young puppies before and after weaning. Contains pure pepsin, extremely assimilative. 12-oz. tin 60c.

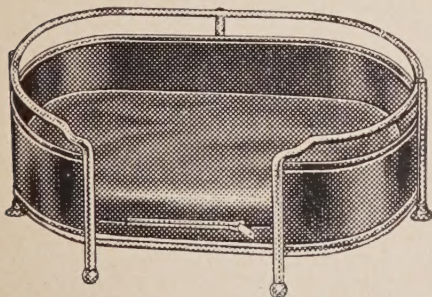
Puppy Meal. The standard weaning food. For feeding puppies until old enough to eat more solid food. Packages 35c.

Prices for Larger Quantities on Application
DOG BED — 26" LONG COMPLETE WITH
CEDAR FILLED MATTRESS

\$6.35

PULVEX DOG REMEDIES

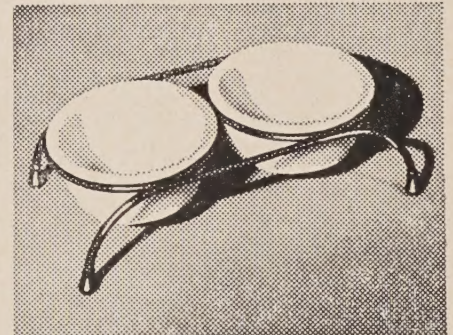
Flea Powder with DDT, 3-3/5 oz.	50c
Tick Powder, 4 oz.	75c
6 Use Dog Soap	50c
Reg. Dog Soap	25c
Condition Tablets, 48	50c
Dry Cleaning Powder, 5 oz.	50c
Pine Oil Disinfectant, 8 oz.	50c
Ear Canker Treatment, 4 oz.	60c
Eye Lotion, 4 oz.	60c
Laxative Tablets, 50	50c
Combination Worm Capsules	50c
Vitamin Mineral Supplement, 5 oz.	75c
Dog Stain Remover, 8 oz.	75c



DOG BED
26 INCHES LONG
COMPLETE WITH
CEDAR FILLED
MATTRESS

\$6.35

DOG FEEDING
DISH.
METAL STAND
ENAMELED RED.
COMPLETE WITH
2 GLASS DISHES.
85c SET.



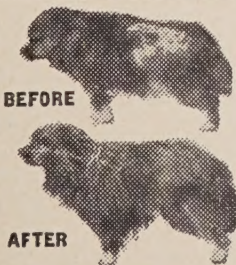
Hilo for SUMMER Dip & Ointment ECZEMA

When your Dog starts to scratch and bite his back, don't wait.

Get Hilo Dip and Ointment.

Has helped thousands of dogs.

\$1 for both
Results Guaranteed



FISH FOODS

Aquarium Fish Food. For Goldfish. A perfect substitute for insect life, etc. Will not foul the water. In sprinkler-top tins. 10c.

Tropical Fish Food. For all tropical fish. 10c per tin.

Wafer Fish Food. For those who prefer a food in wafer form. 10c.

Zeke Turtle Food (Dried Flies). The ideal food for turtles, etc. 10c.

Recto. Remedy for fungus in aquarium fish, also for tail rot, white spots, etc. A water purifier and rectifier. 25c per tin.

DOES YOUR DOG Itch.. Scratch?



DON'T BLAME FLEAS
MANGE... DIET!

If your dog itches, scratches continually, it's probably not due to fleas, mange or diet. 2 to 1, it's FUNGITCH, grass-borne fungus infection long a puzzle to science. FUNGITCH starts as an itch followed by dandruff-like scales or sores with brownish edges and mouldy odor — or infection in ears, in paws, underbody, tail or eyes. May lead to most serious results—costly care—even total loss. Now a noted specialist's discovery — SULFADENE — applied externally, stops itching in minutes... clears up scales and sores in a few days. Generous treatment—only 98c.

Dr. MERRICK'S SULFADENE

These 4 Make His Life Miserable



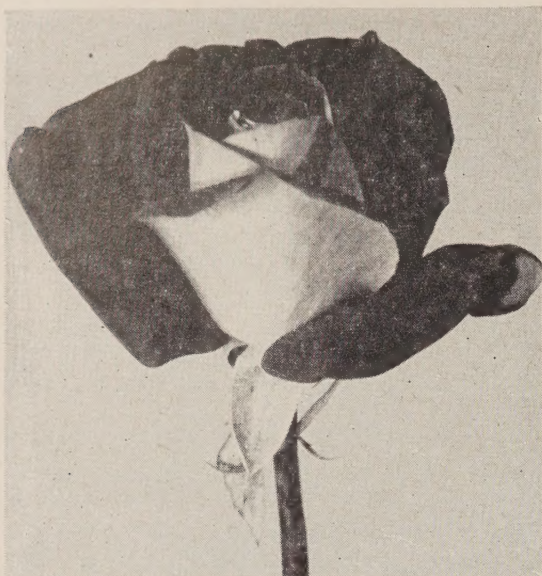
- Fleas • Ticks
- Sarcoptic Mange Mites
- Canker Ear

Quadine provides complete protection for your dog against the great common pests of dogdom. . . In that single bottle are many other benefits, too — 23 in all.

Quadine

also controls ringworm, dandruff scales, dog odor, lice, and gives the hair that dog-show sheen which delights every owner . . . Easily applied with cloth, brush or atomizer. Eliminates washing. 2 oz. bottle, 75c. 3 oz. bottle with special atomizer, \$2.25.

NORTHWEST GROWN HARDY ROSES



FORTY-NINER (Plant Pat. No. 792)

PATENTED VARIETIES

Applause (Pat. No. 829). The large buds are a sparkling light red. They unfold into perfectly shaped open flowers, heavy with fragrance. The plant itself is an excellent bloomer. **\$1.25 each.**

Charlotte Armstrong (Pat. No. 455). Magnificent flowers of cerise red. **\$1.50 each.**

Countess Vandal (Pat. No. 38). Long, tapering buds of coppery orange open to fragrant flowers of carmine-pink, buff and gold. **\$1.35 each; 3 for \$3.40.**

Crimson Glory (Pat. No. 105). Deep velvety crimson, very fragrant and long lasting. **\$1.50 each.**

Eclipse (Pat. No. 172). Streamlined rich yellow buds, 2 inches in length. Petals are large and of good substance, but not numerous. **\$1.35 each.**

Forty-niner (Plant Pat. 792). Brilliant bicolor. Rich yellow outside, vivid red inside. Chrome yellow bud. Vigorous grower and quite free from thorns. The best non-fading bicolor. **\$2.50 each.**

Fred Edmunds (Pat. No. 731). Bright olive green foliage sets off abundant flowers of burnt orange which become vivid, coppery orange and finally apricot. **\$1.50 each.**

Grande Duchess Charlotte (Pat. No. 774). Beautiful long buds of rich claret open to firm petaled blooms which gradually assume a lovely begonia rose color. **\$1.50 each.**

Mary Margaret McBride (Pat. No. 537). Clear, deep coral pink suffused with gold at base of petals. **\$1.50 each.**

Mme. Henri Guillot (Pat. No. 337). Deep raspberry to watermelon pink, richly fragrant. **\$1.50 each.**

Mirandy (Pat. No. 632). This gorgeous, fragrant rose has large ovoid buds of rich, dark red that open to huge, perfect blooms. The plant is sturdy with dark green foliage. **\$1.50 each.**

Peace (Pat. No. 591). Buds of yellow, cerise-edged, disclose new iridescent beauty at each stage of coloring. **\$2.00 each.**

Pinocchio (Pat. No. 484). Buds are rich salmon, blushed gold at the base, changing to soft pink as the flowers open. Always in bloom with hundreds of flowers on every bush. **\$1.25 each.**

Rubaiyat (P.A.F.). Graceful brilliant red buds; outside of petals accented by a delicate lighter shade. **\$2.00 each.**

Show Girl (Pat. No. 646). Deep pink on long stems; lasting and very fragrant. **\$1.50 each.**

Saturnia (Pat. No. 349). Brilliant cardinal-red flowers with reverse of salmon-yellow and copper. The blooms have an unforgettable fruity fragrance. **\$1.50 each.**

Sterling (Pat. No. 21). Large blooms of bright pink with touch of yellow at base of petals. **\$1.25 each.**

Taffeta (Pat. No. 716). Slender, beautiful buds open to semi-double flowers harmoniously blending rose-pink, salmon and apricot. **\$2.00 each.**

Tallyho (Pat. Applied for). This rose has an unusual tint entirely new to roses. Outside varies from crimson to cardinal. Inside offers varying shades of Tyron rose, China rose, phlox pink. Rich spicy fragrance. Robust grower. **\$2.50 each.**

Texas Centennial (Pat. No. 762). Light carmine, toning to dark pink with age. **\$1.25 each.**

White Wings (Pat. No. 850). Crisp, waxy white flowers. In the center of each rose is a cluster of amethyst stamens with anthers of gold. Blooms appear in clusters. **\$1.50 each.**

OLD ESTABLISHED FAVORITES

\$1.10 Each; \$11.00 per Dozen

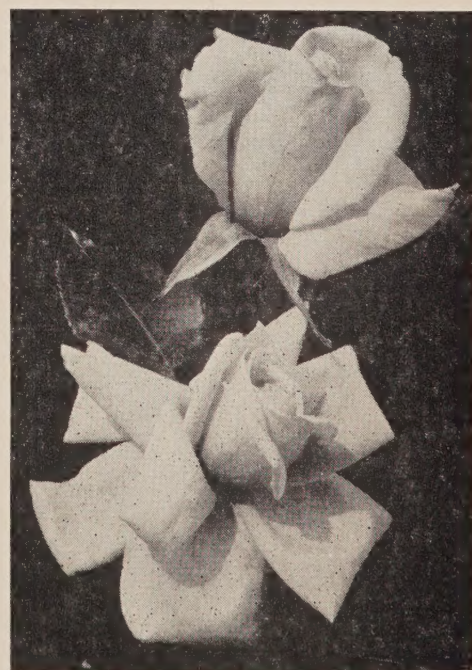
Autumn. Burnt orange.
Christopher Stone. Crimson.
Etoile de Hollande. Bright red.
Frau Karl Druschki. Snowy white.
McGredy's Ivory. Creamy white.
Mrs. Sam McGredy. Coppery-orange.
Picture. Velvety rose pink.
Pres. Hoover. Shades of pink and yellow.
Sister Therese. Daffodil yellow.
Talisman. Blends of gold and apricot.
The Doctor. Vigorous satiny pink.

CLIMBERS

Blaze (Pat. No. 10). Brilliant scarlet. **\$1.50.**
Cl. Etoile de Hollande. Dark red blooms produced continuously on a good, strong plant with plentiful foliage.
Gold Rush. Apricot yellow.
High Noon (Pat. No. 704). Well-shaped buds and semi-double flowers of brilliant yellow. Blooms throughout growing season. Thornless.
Cl. Mrs. E. P. Thom. Yellow.
Paul's Scarlet. Bright red.
Reveil Dijonnais. Pink and gold.
Cl. Talisman. Salmon.



PAUL'S SCARLET CLIMBER



McGREDY'S IVORY

ALL ROSES SHIPPED PREPAID



PEACE (Plant Pat. No. 591)

*See Our Complete Listing of
Roses on Page 50*



MIRANDY (Plant Pat. No. 632)



PINOCCHIO (Plant Pat. No. 484)

SATURNIA (Plant Pat. No. 349)



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BLAZE (Plant Pat. No. 10)



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